The Attining Journal AND ATMOSPHERIC RAILWAY GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 564 .-- Vol. XVI.

LONDON: SATURDAY, JUNE 13, 1846.

[1 TCE 6D.

IMPORTANT MINING SHARES, Paying dividends, and presenting, in other respects, eligible investments for capital.

NR. C. WARTON begs to announce, that he is directed by the trustees of the late Henry Gilbard, Esq., of Devonport, to SELL, BY AUCTION, at the Auction Mart, on Thursday, the 18th of June, at Twelve o'clock, SHARES in the following important BRITISH MINES—viz.: Botallack, East Wheal Crofty, Wheal Providence, West Wheal Providence, South Reskear, Dolcoath, Fowey Consols, Hallenbeagle, Levant, Wheal Henry, Wheal Robins, Wheal Rose, and Wheal Anderson Mines, embraing some of the most lucrative established interests in the county of Cornwall, and more recent adventures of the greatest promise.

Particulars may be had at the Auction Mart; at the Golden Lion Hotel, Liverpool; at Fearce's Hotels, Trure and Penzance; and of Mr. C. Warton, suctioneer and estate agent, is, Threadneedle-street.

SHARES IN THE TRELEIGH CONSOLS MINE, CORNWALL

THARES.IN THE TRELEIGH CONSOLS MINE, CORNWALL.

MR. C. WARTON is directed by the executors of the late Daniel Carling, Esq., TO SELL, BY AUCTION, at the Mart, on Thursday, the 18th of June, at Twelve o'clock, ONE HUNDRED and TEN SHARES in the TRELEIGH CONSOLS MIKE, in the celebrated mining district of Gwennap, in the county of Cornwall, upon which 26 per share have been paid. The mine is in a very promising state.

Particulars may be had at the Auction Mart; at the Golden Lion, Liverpool; Pearcest Hotels, Truro and Penzance; and of Mr. C. Warton, auctioneer and estate agent, No. 38, Threadincedio-street.

HIRTY-INCH CYLINDER ENGINE, AND OTHER STARE MINING MATERIALS, FOR SALE.—TO BE SOLD, BY AUCTION Tuesday, the 23d day of June inst., at Eleven o'clock in the forencon, at PROVIDENCE MES, near ST. IVES, CORWAII, an excellent 30-in. cylinder PUMPING-ENGINE, with INCELE, at WATER-PRESSURE ENGINE, 8-inch cylinder, with nozales, or most approved plan; a quantity of PUMPS, of various sizes, and other spare materials for viewing the same, application should be made to the agents on the mine; and the particulars, to Mr. G. H. Bellringer, auctioneer, Penzance.—Dated June 8, 1845

MINING MATERIALS.—TO BE SOLD, BY PRIVATE CONTRACT, at WHEAL BETSY MINE, in the parish of Mary Tavy, near Tavistock, Devon, the under-mentioned MATERIALS—vis.

VICONTRACT, at WHEAL BETSY MINE, in the parish of Mary Tavy, near wristock, Devon, the under-mentioned MATERIALS—vis.:

1 WATER-WHEEL, of 40-feet ditameter, 4-feet breast, on Buller's shaft ditto 40-feet ditto 4-feet ditto on Williams's shaft ditto 28-feet ditto 4-feet ditto on Williams's shaft 250 fathoms 11-16th inch chain 15-feet ditto 4-feet ditto for drawing machine, with 15-feet didneter, 3-feet breast, applied to a grinder, with 15-feet diameter, 3-feet breast, applied to a grinder, with 15-feet diameter, 3-feet breast, with stamps attached 1 cast-iron axie, on Job's shaft, with cranks, brasses, &c., complete, and adapted for building a wheel on, 40 to 5-feet diameter, and 4-feet breast 120 fathoms 3-1-inch vound iron flat-rods.

2 good bobs, at Job's shaft to 150 fathoms 6-8-inch square connection-rods, in ditto 40 fathoms casing ladders, &c., in ditto 40 fathoms casing ladders, &c., in ditto 41 fathoms 12-inch ditto 41 fathoms casings, indeed, &c. to ditto 5-feet diames casings, indeed, &c., to ditto 5-feet diames casings, indeed, &c., to ditto 5-feet diames casings, indeed, &c., on ditto 6-feet diames diames ditto 6-feet diames ditto 6-feet diames ditto

Sundry sheds, &c., on dressing Boors, with various other the working the mine.

working the mine.

whole is OFFERED FOR SALE, BY PRIVATE CONTRACT, to any person will whole is OFFERED FOR SALE, BY PRIVATE CONTRACT, to any person will be an impossed of on or before the 20th inst.

same as they stand; and if not so disposed of on or ivertised FOR SALE, BY PUBLIC AUCTION.

asse materials may be seen at any time before the above-named day, by a specific william Williams, at Wheai Friendship, near Tavistock, and who we treat for the same.—Dated Wheai Betay, near Tavistock, June 1, 184

O COALOWNERS, MINERAL AGENTS, ENGINEERS, &c.—Ta sequence of concentrating the drainage of Walbottle Colliery, and lift-the whole of water from one shaft, there will SHORTLY BE FOR SALE, the REE present TUMPING ENGINES, with pumps, and all other apparatus belonging reto—the whole of which are in good condition, and may be seen working until about

the middle of next month—viz.—
AT THE CORONATION PIT.

A high-pressure single-acting ENGINE, cylinder 47 in diameter, stroke 8 ft., with three cylindrical bottons, 28 ft. leagt by 7 ft. diameter. One of the same size, with two longitudinal these, 2 ft. diameter. Four working barriel, lined with copper, 12 in. diameter, and 340 yards of common pumps, with shears, crabs, shear legs, gins, &c.

double-acting condensing ENGINE, cylinder 47 in. diameter, stroke 6 ft., with three haystack boliers, 15 ft. diameter, Four working barrels—viz., 13, 14, 15, and 16 in. diameter, all lined with copper, and 34 yards of common pumps to each barrel, with shears, crabs, shear legs, &c.

shears, crais, shear legs, &c.

AT THE DUKE PIT.

a single-acting high-pressure ENGINE, cylinder 32 in. diameter, stroke 44 ft., with one
boiler (cylindrical), 23 ft. long by 54 ft. diameter. One working barrel, 144 in. diameter.

limit syth copper, and one 13 in., lined with brass, with pumps, shears, &c.

Also, a great QUANTITY of ENGINE and OTHER very useful MATERIALS, besides

everal TONS of CAST and MALLEABLE IRON.

Apply to Messrs. R. and W. Hawthorn, engineers, Newcastle; or to Mr. Oliver, at the illiery.—Walbottle Colliery, near Newcastle, May 8, 1846.

SOUTH STAFFORDSHIRE.

FORGE AND MILL TO BE LET, For a term of years, all that well-known FORGE and MILL, situated at the LEVEL RON-WORKS, near Brierley-hill, Staffordshire, consisting of a complete FORGE, with ENGINE of 26-horse power, two powerful helves, 16 puddling furnaces, and every other requisite; a large and complete MILL, with ENGINE upwards of 56-horse power, with squeezers for puddled balls, a train of two pair of puddled ball rolls, two trains of small rolls, trains of merchant bar rolls, hoop rolls, rail rolls, excellent cutter train for rods, numerous shears, drilling machine, five heating furnaces, and excellent lathe, and conveniences of every description. Two upright bollers are worked by the heating furnaces for the mill engine. The rolls, floor plates, furnaces, working tools, and other property belonging to the present tenant, may be taken at a valuation when possession is given.

As the present tenant, in consequence of a recent death, would have no objection to retire, any person wishing immediate possession of the works, may have the same in its present working state, together with the orders and connections of long standing, which are sufficient to find a regular demand for the produce of the works.

The works may be viewed, and all further particulars known, by application to Mr. R. Smith, the Priory, Dudley; or to Mr. James Holcroft, at the Level Mill.

TEAM-PACKET COAL COLLIERY.—SOUTH WALES.

TO BE SOLD, OR LET, for such a term of years as may be agreed, TWO

BEAMS of COAL lying under an estate of about 200 acres, within five miles of the port

f Swansea. This estate is contiguous to the Graigola or Bryndewy Collieries, and con
sian the same seams of coal which have been used for many years by the East India

to same yand the Government, and which are named in the list of the coals to be included

as a Admiralty contracts, and at present by some water-works and large browery es
stimments. The ground is well proved by extensive workings in adjoining collieries.

The property is believed to be free from faults, and the workings may be opened in an

scient manner at a small outlay. The coal can be produced at a low cost, and the

canalt to the port will be by a locomotive railway, intended to be opened in a few months.

the consumption of this description of coal has greatly increased of late—its application

of the analysis of the secretary TEAM-PACKET COAL COLLIERY.—SOUTH WALES

STEAM COAL.—The BYNEA COLLIERY TO LET, with immediate possession. It is situate close to the lines of the Lianelly and South immediate possession. It is situate close to the lines of the Lianelly and South Ales Rallways; on the former of which the coals are carried for ahipment to the Lianelly Dook—a distance short of three miles from the colliery. The Spitty Copper Works is sentimous, to which casy access might be had over the land of the proprietor of the Dillery, It at any time those works should be again carried on. The BYNEA COAL has self-injuly approved of for STEAN PURPOSES and PATENT FUEL, and is in good suand for smitter, and other uses, particularly in the Dublin market.

The PLANT consisting of a 40 and 20-horse power ENGINES, &c., to be taken on the particular apply (letters are all 1).

tenand for smiths, and other uses, particularly in the Dublin market.

The PLANT, consisting of a 40 and 20-horse power ENGINES, &c., to be taken or market to be agreed upon.

For particulars apply (letters pre-paid) to Mr. B. Jones, solicitor, Llanelly; or o Mr. &. Gascotine, at the office of the Llanelly Railway and Dock Company, No. 9, Old awry Chambers, London.

STEAM COAL-WITHOUT SMOKE, as per experiments made at her Majesty's Dockyard, Woolwich.

CAMERON'S COALBROOK STEAM COMPAIL, AND SWANSEA AND LOUGHOR
RAILWAY COMPANY.—(Gompletely Registered and Incorporated.)

AILWAY COMPANY.—(Completely Registered and Incorporated.

OFFICES—9, MOORGATE-STREET, LONDON.

ors are now prepared to supply steam ship companies, manufacturers with the company's steam coal, either at the company's wharfat S

A statement, showing by comparative trial the superiority of the sees over every other, and a scale of prices, may be had on applicatiffices here, or at their wharf at Swansea.—Harch 18, 1846.

TMPORTANT TO ENGINEERS, MANUFACTURERS, RAILWAY AND STEAU-BOAT COMPANIES.

Messrs. W. & C. MATHER beg to call the attention of the ABOVE PARTIES to their IMPROVED ELASTIC METALLIC PISTONS.

The PRINCIPAL FEATURE and ADVANTAGE of THIS IMPROVEMENT is / Its great ELASTICITY and SELF-ADJUSTING PROPERTIES, which enable it to yield to any inaccuracy of the cylinder, whether oval or taper, and to move with the least

ossible friction.

2. Its extreme SIMPLICITY and LIGHTMESS, consisting of only two pic aving the vertical and lateral pressure in due and proper proportion, ind

oach other.

3. It takes the LEAST possible SPACE, and is well adapted for air and water-pumps, as it allows of a larger water way.

Messra, W. & C. MATHER feel confident that it is the BEST ELASTIC METALLIC PACKING yet known, for the above reasons.

Models may be seen at the Saiford Iron-Works, Manchester; at W. Barker's, engineer, Newton-Moor; and also at J. Mather's, engineer, Beaufort-street, Chelsea, London.

THE PATENT SAFETY FUSE,

OPERATIONS—This article affords the SAFETY FUSE,

OPERATIONS—This article affords the SAFET, CHEAPEST, and most EXPEDITIOUS MODE of effecting this very bazardous operation. From many testimonies to its userulness with which the manufacturers have been favoured from every part of the kingdom, they select the following letter, recently received from John Taylor, Esq., F.R.S.,

kc.;—"I am very glad to bear that my resummendations have been of any service to you; they have been given from a thorough bonviction of the great usefulness of the Safety Fuse; and I am quite willing that you should employ my name as evidence of this," Manufactured and sold by the Patentees, BICKFORD, SMITH, and DAVEY, Camborne, Cornwall.

SAFETY FUSE FOR BLASTING ROCKS, SUBMARINE

beg to inform the MANAGERS and AGENTS OF MINES, and OTHER PARTIES engaged in WOIKS, requiring the SAPETY FUSE, that they are now able to SUPPLY that ARTICLE in ANY QUANTITIES, and of such descriptions, as may be required. The British and Foreign Safety Fuse Company have spared no expense, in order to make an article of the first quality, and they loope, by a strict attention to business, to merit a continuance of the orders which they may be favoured with. Orders from any part of the kingdom will be executed with every possible dispatch, and articular care will be observed in packing fuse which may be wanted for exportation, pDated Redruth, Cornwall, April 21, 1846.

NOTICE TO THE PROPRIETORS AND SHARE-HOLDERS OF MINES, SMELTING-WORKS, &c.

Messrs. MITCHELL and FIELD beg to inform the FUBLIC, that they have REMOVED from No. 5 a to No. 23, HAWLEY-ROAD, KENTISH TOWN, where they have erected a spacious LABORATORY, fitted expressly for the performance of all OPER ATIONS CONNECTED WITH MINING.—Practical instruction to gentlemen in Assaying, Mineral Analysis, and Manufacturing Chemistry in general.

Assays and Analyses conducted as usual.

All communications to be addressed to Messrs. Mitchell and Field, assayers, No. 23, Hawley-road, Kentish Town.

TO ENGINEERS, RAILWAY CONTRACTORS, MINING AGENTS, IRONMASTERS, AND OTHERS REQUIRING FINE GREASE for MACHINERY and AXLES of overy description.—JOSEPH PERCIVAL'S IMPROVED ANTI-FRICTION GREASE is—after trials on inachinery and axles of every kind where constant friction is kept up—admitted to be the most useful, economical, and best preparation of the kind ever offered to the public.

References to scientific and practical men can be given, and testimonials shown for the great excellence.—Samples forwarded on application at the manufactory, Green-street, Wellington-street, Blackiriars-road, London.

DENNANT LEAD AND COPPER MINING COMPANY, DINAS MOWDDWY, COUNTY MERIONETH.
NOW IN WORK ON THE "COST-BOOK" PRINCIPLE.

GOOD shares.—Doposit #I per share.

GOOD shares.—Doposit #I per share.

COMMITTEN OF MANAGEMENT.

Joseph Carrington Ridgway, Esq., Hochampton Lodge, Rochi
B. Forrester Scott, Esq., Park-street, Westminater
Calverley Richard Bevicke, Esq., Barham House, Beccles
Charles Dumbar Atkinson, Esq., Wakefield
William W. Mansell, Esq., Dorchester-place, Blandford-square
Constitution Engagement

Charles Dunbar Atkinson, Esq., Wakefield
William W. Mansell, Esq., Dorchester-place, Blandford-square.
consulting and Mineral Surveyor, Redruth.
SOLICITORS.
Mesars. Pocock and Marston, 16, Norfolk-street, Strand.
Mesars. Cocks, Biddulph, and Biddulph, London. OFFICES-No. 4, SALISBURY-STREET, STRAND, LONDON.

Messrs. Cocks, Biddulph, and Biddulph, London.

OFFICES—No. 4, SALISBURY-STREET, STRAND, LONDON.

Pennant Lead and Copper Mine sett extends ever about 900 acres, and is situated in the centre of the lordship of Mowddwy, county Merioneth, which is admitted to be one of the richest mineral deposits in the kingdom. It is held under lease from the lord of the said manor, at the usual royalty of 1-10th, for a term of 21 years, renewable for the same period, on payment of a fine.

Pennant is in the immediate vicinity of the mines, on the same manor, of Craigwen, Foel Rhydd, and Cowarch, which are in course of most satisfactory working, and producing ore, which yields from 70 to 80 per cent. of lead, in addition to a considerable quantity of silver. These facts, of themselves, are safficient to show the value of the property; and as nearly all the lodes on these setts cross Fennant, there is every reason to expect an equality favourable result; while the rapidly-increasing value of lead encourages the more extensive expenditure in the workings, which a company would do. It is a well-known fact, that the requirements of lead foliew those of iron; and it is almost superfluous to allude to the extraordinary and increasing demand which exists for the latter.

The backs of several of the veins have been exposed, and an adit is in course of driving. The high road from Bala to Mallwyd runs slong the sett, and the River Dovey is at the base of the mountain. It is about 12 miles from the port of Dowwen Las; but, as various projects are before the public for railway communication in this district, there is little doubt but that a short time will furnish direct and speedy transit to London, Liverpool, &c., and wholly supersede the necessity of having recourse to water carriage.

The bill for the Worcester and Portit Dynllaem Railway, brought forward by the Great Western Railway Company, has been read a second time in the House of Commons. The line runs near to the Ponnant Mine, as shown on the map.

There is an abundant supply o

nish such natural facilities.

The object of the company is to develope and bring into full work the various resources of this sets, and to be in a position to make arrangements in respect to other setts, should he shareholders hereafter so determine. The capital formed from the payment of decests will be fully sufficient to work the Pennant sett.

The operations of the company are carried on under the "cost-book" principle, which xempts the company from the provisions of the Act for the Registration of Joint-Stock companies of T and 8 Vic., cap. 110, the Sed section of which emeats:—

"Provided always, and be it enacted, That nothing in this Act contained shall extend, or be construed to extend, to any partnership formed for the working of mines, minerals, and quarries, of what nature secure, on the principle commonly called the cost-book principle."

The capital realised from the deposit is considered a sum sufficient to bring the undersking into a paying state: but, in the security of the security of the contrained to the interesting into a paying state: but, in the security of the contrained to the contrained to the interesting into a paying state: but, in the security of the contrained to the c

cost-book principle."

The capital realised from the deposit is considered a sum sufficient to bring the under taking into a paying state; but, in the event of more being required for general purposes the lifth clause of the "cost-book" provides—

"That no further call than that authorised by the fourth resolution (the deposit shall be made before the 1st day of January, 1847, and that three months' clear no tice of every future call shall be given by the purser for the time being, by circular the control of th

"That no further call than that authorized by the fourth resolution (the coprosphalal be made before the 1st day of January, 1847, and that three months' clear notice of every future call shall be given by the purser for the time being, by circulars to be sent to each adventurer or shareholder, by post—provided always that a period of three calendar months shall elapse between the making of any two calls, and that no call shall exceed the sum of £1 per phare."

Under the "cost-book" principle, shareholders have the right of determining their responsibility by giving notice of their intention to relinquish their shares, and on forfattare of all previous payments. The 21st clause states—

"That any adventurer or shareholder may determine his or her responsibility or liability, with respect to the affairs of this mine, upon his, or her, giving notice, in writing, to the purser of the company for the time being, of his, or her, desire of retiring from the company; and also upon depositing with the said purser the share or shares held by him, or her, and signing s relinquishment of all claims or demands on the company in respect to such share or shares."

For the original purchase of the grant, the sum of 25001, will be required; and, in consideration of the works done in developing the mine, and of the transfer to the company of the lease of Pennant, with all its rights and privileges, the present lease to have 600 paid-up shares, in addition to the sum of £506, which he has already paid for working and other expenses.

Applications for shares to be made to the purser, at the offices of the company, No. 4, Sallabury-atreet, Strand; to the solictions, Mesers. Poccek and Marston, No. 10, Norfolk-street, Tand; or Charles Godwin, Esq., 3, Boyal Exchange-buildings, where prospectuses, reports, maps, and every information may be obtained.

RATIS.—A LIST of PATENTS and REGISTRATIONS for the MONTH of FEBRUARY, may be had (gratis) on application at the PATENT OFFICE, 89, CHANCERY-LANE, or will be sent free, by post, on receipt of two stamps, together with a Prospectra, containing charges and necessary information for PATENTS and REGISTRATIONS.—Further particulars may be had by applying to Mosers, Batlow and Re Capelain, the Patent Office, 68, Chancery-lane.

MR. H. B. RYE (from Cornwall), MINE AND SHARE AGENT, 49, OLD BROAD STREET, LONDON 'LWAY Mines inspected, and every information may be obtained on applicat.
Mr. Bye is a SELLER in TRELAWNEY, and a BUYER in MARY AL.

HOS. P. THOMAS, of the late firm of Rye and Tho-MINE AGENT, AND DEALER IN RAILWAY AND OTHER SHARES, 80, OLD BROAD-STREET, LONDON.

AMES LANE, SHARE AGENT

JOHN PHILLIPS, MINE SURVEYOR AND REPORTER, POOL, ILLOGAN, CORNWALL,
OFFERS his SERVICES, by the promptest attention, to any business of INSPECTION and ADVICE.—Terms, One Guines per day, besides consequent expenses.

WILLIAM TRENERY, DEALER IN RAILWAY AND MINING SHARES.—ESTABLISHED TEN YEARS.
OFFICES, No. 50, THREADNEEDLE-STREET, LONDON.

PAUL RABEY, Jun., AND CO., MINE AND RAILWAY
SHARE AGENTS.
OFFICE-No. 12, COPTHALL-COURT, LONDON.
22

WILLIAM FOX AND SON, No. 53, CASTLE-STREET, LIVERPOOL, have always on SALE PIG-IRON, RAILWAY BARS, CHAIRS, and IRON of every description.—TIN PLATES, WIRE, &c.

TESSRS. LAMOND, SMALE, and LAMOND'S PUBLIC SALE OF RAILWAY SHARES, &c., are HELD, at the Hall of Commerce, readneedle-street, every TUESDAY and FRIDAY, at One o'clock precisely.—Ordered until Four o'clock of the day prifor to sale.—London, June 19, 1846.

MINING OFFICES, REMOVED FROM 16, CORNHILL, of Cornwall), having established PRACTICAL AGENTS and CORRESPONDENTS in every MINING DISTRICT, whereby he obtains early and accurate information respecting MINES, profers his services to capitalists and adventurers in the PURCHASE and DISPOSAL of SHARES.

MINING PROPERTY.—CAPITALISTS who are disposed to INVEST in CORNISH and POREIGN MINES, will find the present opportunity ery favourable for so doing. From large sums having been lately diverted from such a very favourable for so doing. From large sums having been lately diverted from such a very the purchaser 20 per cent, per annum for his outlay. There are also other mines hat are on the eve of paying dividends, which can be recommended with confidence. Applications to be made to Mr. JAMES HERRON, mining agent, No. 3, Adam's-courted-street, London.

MR. HENRY ENGLISH having made arrangements for VISITING the counties of COINWALL and DEVON, with the view of INSPECTING and REPORTING on the MINES in those districts, and also eliciting such information as may be considered of interest to the body of adventurers generally, more especially as affects supplies, will be happy to receive the commands of parties interested; as also introductions to the several managers or agents connected therewith.

All communications will be treated with the strictest confidence, and every care taken, by the assistance of able and practical local agents, to acquire information on all points, whether at surface or underground. Plans, or sections, will be furnished, where the request is made.—Mr. English, who will leave town on the 20th inst., may, in the interim, be consulted at his offices, 5, Shorter's-court, Throgmorton-street, between the house at Ten and Four.—June 13.

TO CAPITALISTS .- Messrs, SMITH, JULIAN, & Co., TO UAPITALISTS:—Messrs. SMITH, JULIAN, & CO., from the MININO DISTRICTS in CORNWALL, beg to state, that they are in possession of a valuable SETT, on which a LEAD MINE was worked some years ago, to the depth of 60 fathoms; but, owing to a disagreement amongst the former adventurers, and the then low price of lead, it was discontinued. A praspectus of the mine, with a plan of the underground workings, with other particulars, may be obtained on application. Messrs. S., J., & Co., have also SHARES in good working MINES, which may be had at REASONABLE PRICES.—Attendance will be given at No. 15, KING -STREET, CHEARSIDE, on Saturday, the 18th of June inst., and daily during the following week, between the hours of Ten in the morning and Two in the afternoon.

The same party have at their disposal, GRANTE BLOCKS, of ALL DIMENSIONO and to ANY EXTENT.—Dated 15, King-street, Cheapside, London, June 11, 1846.

TO CHINA CLAY MERCHANTS, AND OTHERS.—Any respectable house, in the ABOVE LINE, producing a really first-rate article, may make satisfactory arrangements for the SALE of the same, with a FHM in MANCHESTER, laving an opening for its disposal.—Address G. A. S., Box B 55, Post-office, Manchagen

WANTED TO PURCHASE, a SECOND-HAND PUMP-ING APPARATUS, for a SHAFT of 148 yards in depth. The PUMPS to be 10 inches in diameter, in two lifts, and to contain all necessary fittings, working-barrels, pump-rods, &c.—Application to be made, stating particulars as to price, &c., to is Mitcheson, mine agent, Langton, Newcastle, Staffordshire.

NGLO-MEXICAN MINING ASSOCIATION, 5, Broad-NGLO-MEXICAN MINING ASSOCIATION, 5, Brodustreet-buildings.—The ANNUAL GENERAL MEETING of the proprietor of the
ASSOCIATION FOR ASSISTING IN WORKING THE MINES OF MEXICO, AND
OTHER PARTS OF SPANISH AMERICA, will be HELD at the company's office, No. 5,
Broad-street-buildings, on Wednesday, the 1st day of July next, at One o'clock precisely.

ALFRED GODFREY, Secretary

GENERAL MINING COMPANY FOR IRELAND.

CENERAL MINING COMPANY FOR IRELAND.

Completely registered, pursuant to 7 and 8 Vic., c. 110.

FIRST CALL OF TEN SHILLINGS PER SHARE.

Notice is hereby given, that in pursuance of a resolution of the board of directors, the shareholders of this company are hereby required to pay into the National Bank of Ireland, College Green, Dablin, on or before Wednesday, the 15th day of July next, A CALL OF TEN SHILLINGS PER SHARE.

Scrip certificates will be exchanged for the bankers' receipts at the company's office, between the hours of twelve and two o'clock each day.

JAMES MURRAY, Chairman Jones, 43, Lower Sackville-street, May 16, 1846. THOMAS MAGUIRE, Secretary.

NEW DELABOLE SLATE QUARRY COMPANY.—The public are respectfully informed, that the whole of the shares is the state of the shares in the state of the shares public are respectfully informed, that the whole of the shares in the above are now taken up, and that a MEETING will take place at the office of Messrs. Bullock and Liscombe, 35, Lincoln's Inn-fields, on Wednesday, the 17th inst., at Two o'clock preckedy also, that the shares reserved for those parties originally applied to, must be taken up by or before Monday evening next, June 15.—Apply to Mr. C. S. RICHARDSON, Managing Agent, 5, Whitefriar-street, City.

Agent, 5, Whitefriars-street, Chy.

CT. JOHN DEL REY MINING COMPANY.—Notice is hereby given, that the EIGHTH HALF-YEARLY DIVIDEND, being TEN SHILLINGS per share on the shares in this company, will be PAID at this office on Saturday, the 20th inst., and any succeeding day, between the hours of Ten and Four.—Forms for claiming the dividend may be obtained at the company's office, and must be left three clear days for examination, previous to payment.

GEO. D. KEOGH, Secretary 21 laiming the dividend may be obtained always for examination, previous to payment.
8, Tokenhouse-yard, Lothbury, June 9, 1846.

UNITED HILLS MINE COMPANY.—The directors hereby give Notice, that the ANNUAL GENERAL MEETING of the absolute and the company of the give Notice, that the ANNUAL GENERAL MEETING of the shareholders of this company will be HELD at their office, on Thursday, the 18th day of June next, at One velock precisely, to receive the report of the directors, and of the agents in Cornwall, and to elect one director, in the room of Mr. Clarke; and one anditor, in the room of Mr. Hensann, who go out by rotation, but are re-elligible. By order of the board, 5, Adam's-court, Broad-street, May 28, 1846.

JAMES SMITH, Secreta

SILVER VALLEY MINING COMPANY.—At the First
Annual General Mosting of the adventurers, held, pursuant to circular, at the offices of the company, 44, Finsbury-square, on Friday, the 12th day of June inst.,

hies of the company, 44, Financia 19.

It was resolved,—
Moved by Mr. Hayne, seconded by Mr. J. E. Goodhart, and carried unanimously, 21.

In that the reports and accounts now read be received, adopted, and entered in the cost and transfer book.

Moved by Mr. J. E. Goodhart, acconded by Mr. J. Smith, and carried unanimously, 2. That the thanks of the meeting be given to the chairman and the directors, for their blied management of the affairs of the company.

R. HODUSON, Chairman.

WENTON GIMPS MINING COMPANY 37

1000 shares (on the cost-book system.)
PROVISIONAL COMMITTEE.
JAMES HAY, Esq.
A. L. MCCATTA Esq.
GEORGE MACKAY, Esq.
Austinifians; or of Mr. Richard Thomas, mining agent, 9, George-ward, Lombard-street,
London, June 3, 1846.

Mining Correspondent.

BARBISTOWN.—June 5.—Since my last repo, we have had our monthly setting: the prices are as follows:—Flat-rod alt ton (4 men); east-setting: the prices are as follows:—Flat-rod alt ton (4 men); western end, ern end, 18 fm. level, 31. 10s. per fm. and 31. 10s. per fm. and 32. sinking under 18 fm. level, 32. 11. 10s. per fm. (4 men); wince sinking under 1 per ton, and 30s. per fm. (6 men); per fm. (6 men); end east from wince fm. (4 men); footway shaft sinking at western end driving on tribute, 31. Pr from engine-shaft, south, 51. 5s. per fm. (6 men); end west from cross-cy adit end east. 11. per fm. (4 men); man on Dane's shaft, 51. per fm. (6 men); end west from cross-cy adit end east. 11. per fm. (4 men); men on Dane's shaft, 51. per fm. (6 men); end west from cross-cy adit end east. 11. per fm. (4 men); men on Dane's shaft, 51. per fm. (6 men); end west from cross-cy adit end east. 11. per fm. (4 men); men on the shout 2 tons per fel, west of flat-rod shaft, is sinking perpendicularly; sinking under the 12 fuxerlay, is at present on the north side of it; the ends and the lode, from it fook well, producing between 2 and 3 tons per fm.; the lode in the adit — T. Angove.

Promising for NITED — June 9.—At Wheal Marmis, the lode in the lode, from it is the shaft of the lode in the adit — T. Angove.

east and west of voroduces rather less than one-half ton per fm., looking very lode in the adit *-T. Angova.

promising for NTTED.—June 9.—At Wheal Marquis, the lode in the 80 fm.

BEDFOFR. wide, and unproductive. In the 70 fm. level east the lode is level castomposed of spar and ore, worth 8L per fm.; and in the stopes, in 2 ft. win of this level, the lode is worth 20L per fm. The lode in the 55 fm. the 4st is 18 in. wide, composed of spar and mundic. At Ding Dong, the 1 fm the 24 fm. level west is 3 ft. wide, producing some eaving work for the 1 fm. level west is 3 ft. wide, producing some eaving work for the 1 fm. Wheal Tavistock, the lode in the 47 fm. level, east and west, is 2 ft. wide, composed of spar, mundic; and ore, saving work. In the 35 fm. level east the lode is 15 in. wide, spar and mundic; and in this level west the lode is 2 ft. wide, saving work. The lode in the south engine shaft is 9 ft. wide, composed of iron, gossan, and ere, altogether very kindly.—JAMES PHILLIPS.

CALLINGTON.—June 8.—Johnson's engine-shaft is sunk 45 fms. below the 112 fm. level; the lode has not been taken down in either of the ends at this level for the past week. In the 100 fm. level north the lode continues productive, leaving ground that will set at 9s. in the 1L, on the value of the lead; in the rise, in the back of this level, both north and south, we are opening ground that will set at 7s. in the 1L; in the winze, sinking below this level, the lode is producing good work. In the 80 fm. level the lode is producing giver-lead ores. At the north mine, we have commenced cutting plat, previous to cross-cutting for an 100 fm. level; in the 90 fm. level south the lode has not been taken down. In the 80 and 70 fm. level south the lode has not been taken down. In the 80 and 70 fm. level we are opening ground that will set at a moderate tribute. The counthouse ware opening producing with copper ore. The counthouse shaft is 2 fms. below the 60 fm. level.—J. T. PHILLIPS.

CONSOLUDATED TEETOIL—June 8.—The alteration of the pi

mixed with copper ore. The counthouse shaft is 2 fms. below the 60 fm. level.

—J. T. PHILLIPS.

CONSOLIDATED TRETOIL.—June 8.—The alteration of the pitwork in Henwood's shaft is finished, and we have resumed sinking; the lode in the shaft is about 20 in. wide, producing good stones of ore. In the 70 fm. level, east of Henwood's shaft, the lode is 10 in. wide, orey throughout—we have suspended the driving this end for a short time, and have commenced a rise for ventilation, and also to cut out ground for tribute; in the 70 fm. level, west of Henwood's shaft, the lode is 1 ft. wide, producing a little ore. In the 60 fm. level, east of ditto, the lode is 10 in. wide, saving work, and will set on tribute. In the 50 fm. level, east of ditto, the lode is 10 in. wide, saving work, and will set on tribute. In the 50 fm. level, east of Williams's shaft, the lode is 1 ft. wide, producing ore, and is also opening tribute ground. Tregillas's lode, driving east at the 60 fm. level, is 1 ft. wide, producing a small quantity of ore. We have began to drive east of Johns's engine-shaft, at the 50 fm. level, on Johns's lode, which is 15 in. wide, composed of spar, capel, and stones of yellow ore.

EAST TAMAR CONSOLS.—June 8.—At Whitsun, at the 46 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in. wide, saving work. At the 36 fm. level, north of ditto, the lode is 20 in.

and west of western shaft, is upwards of 2ft. wide, composed of prian, spar, and tin, altogether very kindly.—W. Richards.

HANSON.—June 8.—At Treza, our sumpmen are sinking Stainsby's engine-shaft under the 22 fm. level, on Stainsby's lode; the lode is \$\frac{3}{2}\$ ft. wide, with some ore. The lode in the \$22 fm. level east is 20 in. wide, unproductive; the west end, same level, is suspended for the present. The tributers working on caunter lode, east of engine-shaft, in the bottom of the 12 fm. level, have a lode 20 in. wide, 10 in. of which is the best branch of ore I ever saw in the mine. At Hanson, our sumpmen are driving the 5d fm. level, west of engine-shaft, on Ribb lede; the lode is 2ft. wide, a large portion of which is mandic, usproductive for copper.—Z. Williams.

HAWKMOOR.—June 9.—The winze in the adit level is suspended, in consequence of quick water. The lode in the 15 fm. level, east of Hitchins's shaft, is \$\frac{3}{2}\$ ft. wide, and worth 6L per fm.—P. Richards.

HOLMBUSH.—June 9.—The shaftmen have been engaged in the past week in stoping a piece of ground for the back of the plat in the 120 fm. level, and in fixing, a 10 in. lift by the side of the 8 in. lift, which we have been sinking with, to prepare for the water which will be let down. to this level by the intersecting of the great cross-course, which we have set to six men to perform. In the 110 fm. level, west of Hitchins's shaft, we have got through the branch of lead and spar reported on last week—the present end being in moderate killas ground; this branch will produce from 2 to 3 cwts. of lead per fathom, and, agreeable to the underlie of this branch, in the level above, we have about 7 ft. further to drive west to intersect the lead lode. When this is accomplished, we shall drive both north and south, on the lead lode, by six men in each end, to intersect the copper lode, now wrought on in the 100, as well as to prove the lead lode, believing we shall have some lead from this level to assist us, judging from the partial branch of

sent end producing about half a ton of lead per fim, and the ground very favorable for driving, being set to drive by six men at 31.15s, per fim; we are driving this level with all possible speed to reach the Flap jack lode, and to prove the lead lode beyond it; in the same level, driving north, the lead lode is 3 ft. wide, composed of flookan and spar; the ground, in this level, is also favourable for driving, being set to six men at 31. per fin; this level we are pushing on with all speed to reach the caunter part of the north lode, and to prove the ground beyond it. In the 90 fm. level, west of lead lode, on the north part, the lode is 10 in. wide, composed of mundic, spar, and stones of ore; the rise, in the back of the 80 fm. level, js without alteration—being in the country, there is no lode to report on. In the 62 fm. level south, the lead lode is 24 ft. wide, composed of flookan and spar.—W. LEAN.

LEWIS.—Tune 6.—Nutt engine shaft is down to the 60 fm. level, where we have commenced to drive cast on the lode, which is 1 ft. wide, yielding some tin; we are also driving west at the same level, lode split and disordered. The lode in the 50 fm. level and east is 1 ft. wide, just passed through a cross-course, disordered, and at present unproductive; the lode in the 50 fm. west is 24 ft. wide, producing some tim. The lode in the 40 fm. level end east is 18 in. wide, worth 40s. per fm. for tin; the lode in the 40 ms. level end east is 18 in. wide, morth 40s. per fm. for tin; the lode in the 40 fm. level end east is 6fm. level end east

to heave the water from adit, over the wheel; since that we have their draining lift, and even with these we find we cannot rate tamping over to stamp the coming work in the mine. Against lay, we aspect to have for the smelting-boase if tons of tin.—Sast Perran Eddy.

Press Endy.

MENDIP HILLS.—June 4.—Stainsby's shaft is sunk 4 fms. below the 18 fm. level, the ground is easy for sinking; in the end, driving south on Stainsby's lode, at the above level, the lode is 1 ft. wide, producing stemes of lead ores from 12 to 15 lbs. weight; in the end, going north, at the same level, the lode is 5 ft. wide, composed of carboante of lime and flookan. At Payuter's shaft we have commenced sinking under the 14 fm. level; the end, driving north from this shaft, on Stainsby's lode, is at present in a disordered state. At the 20 fm. level new shaft we have began driving a cross-cut to intersect Somer's lode, the ground hard for driving; in the end, driving morth on Somer's shaft, the lode is larger than the end is wide, producing a little lend at times. From the present appearance of this mine, it is my opinion as we gain in tepth, and the lodes become in a more settled state, it will make a profitable concern.—Francis Hampur. FRANCIS HARPUR.

the lodes become in a more settled state, it will make a profitable concern.—Francis Harpur.

STRAY PARK AND CAMBORNE VEAN.—In the rise above the back of the 70 fm. level the lode is 1 ft. wide, yielding 2 tons of ore to a fm. At the 70 fm. level, driving west, the lode is 14 in. wide, yielding 2 tons of ore to a fm. In the 90 fm. level, driving west, the lode is 18 in. wide, yielding 2 tons of ore to a fm. In the 90 fm. level, driving west, the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the winze, sinking below the 90 fm. level, the lode is 8 ft. wide, yielding 4 tons of ore to a fm. In the 100 fm. level, driving west, the lode is 2 ft. wide, yielding 3 tons of ore to a fm. In the 110 fm. level, driving west, the lode is 18 in wide, yielding 2 tons of ore to a fm. In the 120 fm. level, driving west, the lode is 10 fm. level, the lode is 1 ft. wide, yielding 3 tons of ore to a fm. In the 120 fm. level, the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the 150 fm. level, driving west, the lode is 2 ft. wide, yielding 3 tons of ore to a fm. In the winze, sinking below the 120 fm. level, driving east, the lode is 2 ft. wide, yielding 3 tons of ore to a fm. In the 100 fm. level, driving east, the lode is 2 ft. wide, yielding 3 tons of ore to a fm. In the 150 fm. level, driving east, the lode is 25 ft. wide, yielding 3 tons of ore to a fm. In the 150 fm. level, driving east, the lode is 50 fm. level, driving least, the lode is 50 fm. level, driving east, the lode is 50 fm. level, driving least, the lode is 50 fm. level, the lode is 50 fm. level, driving least, the lode is 50 fm. level, the lode is 50 fm. level, the lode is 50 fm. level, the

at 1s. 8d. in the 1L, and the men are getting good wages; the tribute ground generally is looking very well, and our next sampling, we expect, will be the largest and the best that we have ever had—R. Euerice. E. Ralpin.

ST. DENIS.—June 4.—This mine is looking well: we have cut a branch of tin at the 8 fm. level, nearly half tin, I think as good as I over saw; we have 2 or 3 fms. further to cut the lode, and this branch is leading into the lode: 1 never knew, when a branch leads into a lode, as that is, to fail; and if the lode opens, as the branch is, shares will be worth 30l, per share. We have 200 fms. on the course of this lode, and in as fine a strata as I ever saw. We have an adit within 10 fms. of the lode, 15 fms. deep, which, if the lode continue good, as it is where we opened it at the surface, we shall return thousands of pounds' worth of tin above the adit. We have three or four other lodes in the mine so, from every appearance, we shall have a good mine. The St. Stephen's lode is running through St. Dennis sett; it is a promising concern; perhaps, if it could be so arranged, it might be best if they were put in one. From what I have heard, and what I have seen, it is likely to make a good mine. I am informed, that the streamers in the bottom have gone over a very gool lode of lead, containing pieces as much as a man could lift; and from what I have seen on the backs of the copper lodes, and from the nature of the country, I should say it is a very promising concern for copper.—W. Hooper.

TAMAR SILVER LEAD.—The engine-shaft is down about 8 fms. below the 145 fm. level the lode is 6 in. wide, composed of capel, with spots of ore. In the 135 fm. level the lode is 6 in. wide, composed of capel, with spots of ore. In the 135 fm. level the lode is 18 in. wide, producing good stones of ore. In the 135 fm. level, the lode in the 30c assay is in the bottom of the 105 fm. level, the lode is 2 ft. wide, producing good stones of ore. In the 125 fm. level, the lode is 2 ft. wide, producing good stones of ore.

a very promising lode.—W. PAUL.

TRELEIGH CONSOLS.—June 6.—In the 100 fm. level, east of Christoe, the lode is 2½ ft. wide, very promising, with stones of ore; in the 100 fm. level, west of ditto, they are driving on the cross-course. In the 90 fm. level, east of ditto, the lode is 3 ft. wide, worth just as last week, from 16l. to 18l. per fm.; in the 90 fm. level, west of ditto, the lode has much improved in size, now 2½ ft. wide, and we think we are through the disordered ground; in the 90 fm. level, east and west of Garden's, the lode is 3 ft. wide, orey, worth 25l. per fm. each end. In the 80 fm. level, west of Good Fortune, the lode is 3ft. wide, producing stones of ore, with mundic, &c. In the 70 fm. level, west of ditto, the lode is 3 ft. wide, with good stones of ore on the south part. In the 60 fm. level, west of Symons's, the lode is 25 ft. wide, producing a small quantity of ore. The 50 cross-cut north is much as usual as to ground, rather more water than usual; in the winze, below the 50 fm. level west, the lode is 18 in. wide, worth 4l. per fm., in the 50 fm. level, west of Symons's, the lode is 2 ft. wide, worth 10l. per fm., not as well as last week; in the adit, west of ditto, the lode is 3 ft. wide, kindly, and producing good stones of ore.—W. Symons.

UNITED HILLS.—June 9.—In the 90 fm. level the lode in the enatern end

fm., not as well as last week; in the adit, west of ditto, the lode is 3 ft. wids, kindly, and producing good stenes of ore.—W. SYMONS.

UNITED HILLS.—June 9.—In the 90 fm. level the lode in the eastern end is 2 ft. 18 in. wide, good ore; in the western end the lode is 2 ft. wide, 2 ft. good ore. In the 80 fm. level, eastern end, the lode is 3 ft. wide, producing ore throughout, of low quality; in the western end, we have commenced rising against the diagonal shaft to the north of the lode. In the 70 fm. level, in driving this end, east, the lode is 2 ft. wide, 1 ft. producing stones of ore; west of James's shaft, the lode is 18 in. wide, producing some-good stones of ore; the ground in the diagonal shaft continues favourable for sinking.—In the 60 fm. level, eastern end, the lode is 2 ft. wide, 18 in. good ore; west of Harper's winze, the lode is 3 ft. wide, orey throughout, of a coarse quality; the lode in the stopes is 2\frac{1}{2} ft. wide, orey throughout, of a coarse quality; the lode in the stopes is 2\frac{1}{2} ft. wide, orey throughout, of low quality. At Wheal Sparrow, in the 40 fm. level, the lode is 18 in. wide, producing stones of ore, with a promising appearance. In the 40 fm. level the lode is 2 fm. wide, prove throughout, of low quality. At Wheal Sparrow, in the 40 fm. level, the lode is 18 in. wide, producing ore throughout, of a coarse quality.—T. TREVENEN. R. WILLIAMS.

WHEAL MARY (Lanivet).—The north lode, or No. 1, is extended on in an easterly direction upwards of 60 fms. The lode is large and promising, and is composed of blends, gossan, prian, with rich yellow copper ore scattered through it: the ground is soof for driving, with a north underlay, of 2 ft. in. a fm. This lode has recently been opened on east of the cross-course, which has hove the

is composed of blends, gossan, prian, with rich yellow copper ore scattered through it: the ground is soft for driving, with a north underlay, of 24 ft. in a fm. This lode has recently been opened on east of the cross-course, which has hove the lode north of its former course; lode in the present end large and promising; 30s, per fm. for driving, with ore acattered through it. No. 2, which is 6 fm. south of No. 1, has been extended several fathoms east of the cross-cut. This lode, which is composed of prian, spar, gossan, with rich stones of copper ore, has been intersected by the same cross-course as No. 1, and has had the same effect as the former. This lode is large and kindly, east of the cross-cut; and its underlay is north; and indeed every lode seen in the sett is underlaying the same way, only some are quicker than others. No. 3 is extended 6 fms. west of the cross-cut; lode 2 ft. wide, is composed of prian, gossan, spar, and orea fine looking lode, with the ground soft for driving. Thus lode has been opened on several fathoms east of the cross-cut, has been intersected by the same cross-course as the former lodes, and on this also it has had the same effect by heaving it north out of its regular course. This lode has been extended a few fathoms east of the cross-course, where the lode has a very chering appearance, and preducing rich stones of yellow ore. No. 4 lode has been opened on for a short distance, but so far as has been seen does not present so finitering a prospect as the former. No. 5 tede has been extended 9 fms. west, and 6 fms. east of the cross-cut. This lode will average 2 ft. wide, and is composed of gossan, and apar, and underlaying 14 ft. in a fathom, north ground soft for driving. (20s., per fathom). This lode has a promising appearance indeed, and 1 shall be medical singapointed if it does not prove productive. No. 6 lode has been extended 6 fms. west, and 1 fm. east of the cross-cut.—lode 1 ft. wide, composed of capel and gossan, with the ground soft for driving. This lode has bee

but a few fathoms in length, so that it would be rather premature to say much about it, only recommend the extending of the lavel on it. There are four men sinking a shaft to come down on this leds. When this shaft is communicated to the adit level it will be of great service, both as ventilation as also to save expense in wheeling the work, by drawing it up through this shaft. There is a cross-cut extended north from No. 1, on the north lode, form 30 to 35 fms. In the cross-cut there are some small flat branches of spar intersected, but not of a very promising character. About 40 fms. north of the present end, there is an elvan course, the underlay or direction cannot best present fixed on, only seen in one place at the surface, but by continuing this level it will not only prove the ground to see what lodes are in that direction, but also intersect the elvan course, when the underlay will be seen, as also the direction, as well as taking in the water at this level, and thus prevent its sinking into the mine when she is sunk to a deeper level. I am much pleased with the appearance of the mine, particularly Nos. 1, 2, 3, and 5, lodes, and I would recommend that Nos. 1, 3, and 5, should be extended on east, and No. 7 west, and at any future time, you might cross-cut from one to the next north or south; and I believe that in sinking—say 25 to 30 fms.—that some of those lodes will fall in with, or unite together; but I think, calculating from the ground laid open on the different lodes, that Nos. 1, 8, and 5, are at least the master lodes. I think that there are sufficient prospects even at present to warrant the erection of an enriche; but I also think the delaving it some 6 or 8 weeks to extend the levels. thite together; but I think, calculating from the ground laid epen on the different lodes, that Nos. I, 8, and 5, are at least the master lodes. I think that there are sufficient prospects even at present to warrant the erection of an engine; but I also think the delaying it some 6 or 8 weeks to extend the levels farther to the east of the cross-course alluded to, will cast greater light on the point where the best spot will be to erect the engine. The ground being virgin ground there may be cross-courses to the east, and not far distant, which might effect the situation for the engine, and the distance is not great, which has yet been opened on the lodes; and by thus extending your adit level you will be constantly taking up water; but from the stream of water at present coming from the different lodes, I think that from a 40 to a 50-inch cylinder engine would be of sufficient power to prove the mine. If the mine was in my own hands, I would not fix on an engine for a few weeks, and from present special cosm, that so far as the mine is laid open, taking into account the number of lodes, their size and promising appearance, with the short cross-cut from one to the other, I consider it an excellent speculation. There are but few, if any, sets in the county, that I have seen, which, at the present depth, present such flattering prospects.—J. Lean.

WEST TOLGUS AND TRELOWETH.—The following are the particulars of the account-meeting, held on the 2d inst. —

To amount of cost for Jan., Feb., March, and April. — £1116 7 7

Balance due to the purser end of Dec., 1845 — 871 6 4—1967 13 11

1421l. 10s. 3d., leaves a balance at bankers' of 1464l. 19s.

WHEAL TRELAWNEY.—Our sumpmen are getting on very well in sinking the engine-shaft under the 32 fm. level; we have set the whole ground to sink to the 42 fm. level, at 14l. 14s. per fm.; we consider, by so doing, we shall save time. The lode in the 32 fm. level, south of the shaft, is 3½ ft. wide, and worth 24l. per fm.; the lode in the 22 fm. level north is 3½ ft. wide, and worth 20l. per fm. The lode in the winze, sinking under the 12 fm. level north, is 2½ ft. wide, and worth 20l. per fm. The lode in the winze, sinking under the 12 fm. level north, is 2½ ft. wide, and worth 16l. per fm. The water is not drained for the winze, sinking below the 22 fm. level, south of the shaft. The stope are all looking well.—Peter Clymo, Jun.

200. per fm. The lode in the 22 fm. level north is 3\(\) ft. wide, and worth 10\(\) per fm. The lode in the winze, sinking under the 12\(\) fm. level north; is 2\(\) ft. wide, and worth 10\(\) per fm. The water is not drained for the winze, sinking below the 22\(\) fm. level, south of the shaft. The stopes are all locking well-PETER CLYMO, Jun.

WHEAL FORTUNE,—May 29.—This mine is situated in the parish of St. Stephen's in Branwell, in the county of Cornwall, about four salles north of the Churchtown, and jons the parish of St. Dennis (from which parish if is separated by a hedge.) In this saine-there has been considerable work done by the old men, on and about the junction of two lodes; they worked if open from surface for a great distance, and from which there has been large quantities of tin taken away. We are sinking at this time a shaft through the old men's workings, where we have found good stones of tins but I would recommend the discontinuance of this mode of working, and to go beak in the valley, and he discontinuance of this mode of working, and the go beak in the valley, and he discontinuance of this mode of working, and have 300 fms. of backs in length. It is my opinion that large quantities of tin will be returned from this adit; those lodes pisse through a beautful strate of ground, being a decouppeed granit. I would also state, that there is no doubt on my mind, but that this locality will become the theatre of great mining operations. It is to be worked with a small capital; and with care, skill, and persevensioes, I have no doubt but that it will make a very profitable speculation.—There are several other lodies in the sextly which have been worked open from serfaces the sextlement and the sextly will have been worked open from serfaces the sextlement and the sextly will be virtue of a water-wheel, and the sextlement and the sextlement of the worked on the lond of the sextlement of the worked on the lond of the sextlement of the sextlement of the worked on the lond of the sextlement of t

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WHEAL MEXICO (near Callington).—June 10.—We have succeeded in satting the copper lode 5 fms. below the adit; but in consequence of the deficiency of top water, we are unable to drive on it. The lode is a very strong see, about 19 foot big, composed of jack, mundic, and a little copper ore, very promising. As it seems we are likely to drain the lode 4 fms. deep, it is our intention to sink a winze on the best part of the lode, at the adit level going eastward, when we anticipate raising some good saving work. But should the top water increase, we hope to resume our working at the 5 fm. level. For the present we have suspended operations on the silver lode, as we have not been fortunate enough to find it, to the west of the cross-course.—W. Knorn.

FOREIGN MINES.

ANGLO-MEXICAN.—Guanazuato, April 24.—Asuncion.—I have been unble as yet to visit the werkings of this mine, but I have fixed an early day for
the purpose, as, by that time, I hope the part called the San Pedro will be ready
for my inspection and judgment. Our profits on the month would have been
greater, but for the intervention of the holy week, which gave us not more than
three days' workings, and even those but feebly availed of by the buscones;
whilst, on the contrary, all the current expenses continued much the same.

Managing 2616. Profit. Loss.

| March 21 | S 628 5 6 | S 1448 3 0 | S 95 4 0 | S 28 | S 2 | S 1270 1 0 | 21 6 4 | S 128 | S 128 | S 1270 1 0 | 21 6 4 | S 128 | S 12 Profit on the five weeks \$ 697 4 2

Total number of cargas 956, at the average price of \$74 per carga. This is an improvement in price over the previous month of full a dollar per carga, and the prospect of continuance is not as yet diminished.

Sirena.—This mine has given no profit for the month.

Finance.—The usual document is enclosed exhibiting an asset of \$78,523.

Finance.—The usual document is enclosed exhibiting an asset of \$78,523.

BOLANOS MINES.—San Clemente, April 17.—San Clemente, San Nicolas, and Malanoche Mines.—In these mines the workings left by our parados d'obra, and surrendered to the buscones, have been greatly exhausted, and some of them—the bottoms of La Luz—have been abandoned even by them; the raising during the week ending the 28th ult., was only 216 cargas; and that ending 4th inst., 186 cargas. Since then the working has been interrupted by holidays; but now that the weeks are unbroken, we shall suffer a further diminution, as the exhaustion of these workings becomes more complete—no new discovery being made to replace them. The west end of La Luz has occasionally shown small specimens of ore, but no carga has been filled from the bargain, and it promises badly for the future. The bargain on the lode of San Jose has continued as before, with a narrow vein of pyrites, assaying 8 to 12 marcs per monton, but in much too small a quantity to pay the costs of driving; it is, however, still continued, for the chance of improvement. Such further economies have been made as the diminution of work has rendered practicable. The general shaft, and that of San Nicolas, have been entirely closed, and that of San German is worked only by day by one malacate. Instead of bringing the attle to the surface, it is now thrown into the old workings, with the precaution, however, of keeping all the stopes free; and, for this purpose, and all others, the old timber underground is made available, so that little or no new timber is expended. The drainage is performed by two malacates, by day only, in Rondanera.

San Francisco de Paula Mine.—The squaring down of the shaft has been

others, the old timber underground is made available, so that little or no new timber is expended. The drainage is performed by two malacates, by day only, in Rondanera.

San Francisco de Paula Mine.—The squaring down of the shaft has been completed; and, for the last fortnight, the sinking in the bottom has been continued, and at present we have gained a total depth of 18 varas below the 125 vara cross-cut. A considerable feed of water has been cut, which employs half the malacate to keep it in fork, and we shall very soon require another malacate. The sinking of the water level in the bottom of the mine is yet barely sensible. The buscones have been well employed in this mine, in number from 40 to 50, between day and night, and at present there are more. Since the two extra bargains in the shaft have been completed, the ore raised must be little short of paying the expenses. We have commenced clearing out the rubbish from the old workings in the east end of the 125 vara level, which is now done at a trifling cost. I hope to lay open veins of ore which will attract our buscones and increase our produce, but the main reliance of the mine is on the ores now under the water level.

Loreto Mine.—The 100 vara cross-cut has cut the Celestina lode in borrasca—the only sign of ore being a narrow vein of bronze caldero, without silver. This has disappointed me greatly. The cross-cut is continued, to see if there may not be another, and a better, branch in the south; and when more has been seen of the lode in the higher levels, such trial as it may deserve will be given to it at the 100 vara level. The 64 vara cross-cut south has advanced about 12 varas; at 17 varas it ought to cut the Celestina lode, which we shall look for next week, and that of the Mayorazgo should be cut before it. The two ends on the Mayorazgo lode have become very poor, the ore being reduced to veins of 2 to 4 in. in width, so that the raising has fallen off greatly. A Guia winze was commenced a fortnight since on this lode, to serve as footway to

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been unsuccessful. At Catta Preta, we hope to reach the lode at the 18 fm. leyel, from Thomas's shaft, early in April, and a trial at the stamps will immediately commence. We have still much difficulty in reaching the lode at the 20 fm. level, from Fitzpatrick's shaft, but every force and means possible are in request, and a very short time must either bring us to the lode, or drive us from this point to some other, as the dry season is at hand; I believe we shall reach it shortly. April 3.—In extending our western cross-cut southward, at the 70 fm. level, we intersected (as we intended to do) the formation which covers the south jacotinga—the sand, of which it for the most part consists, burst forth with great violence, filled the cross-cut, and, reaching the shaft, choked the pumps for a short time; the inconvenience was, however, but temperary, and everything is again in order; this, however, terminates our labour in that part. I am happy to say the vein near Bray's shaft continues to give gold, and I hope will give work for the washing-house, as well as returns at the stamps; every expedition is being used to lay it open at other levels, and I hope two or three weeks more will enable us to work the backs, which we are sanguine will give us better returns than we have had for some time. The stone (which I recognised as the equivalent of that giving gold at Cocaes) in our cross-cut, north of Lyon's shaft, at the 48 fm. level, is being proved at the stamps; the result cannot yet be accurately determined, but I rejoice to say it shows considerable traces of gold—so that I have little doubt we shall find it necessary to make much further examination of this part of the mine, although we are certainly not rich, my hopes are higher than they have been for a considerable time past; and, though our returns are still small, they are the best we have had for two years. An unfortunate breakage of the pump in Thomas's shaft, at Catta Preta, has altogether impeded our progress there sunce my

last, but we hope to be again in order in a few days. At Fitzpatrick's shaft we are still baffled by the softness of the ground—a difficulty you will remember I anticipated on my first visit there. I hope next month may enable us to make some returns, though at first they must be trifling.—Gold Workings.—From March 2d to 31st, 46 lbs, 11 czs. 13 dwts.; and from the 1st January, 102 lbs. 7 czs. 5 dwts. 13 grs.—W. J. Henwood.

NATIONAL BRAZILIAN MINES.—Cocas, April3.—Since our last reports no ore has been extracted from the mine, as the force has been employed in laying down a tramroad from the interior of the mine to the stamps; this work would occupy the next 10 days before its completion, when the stuff from the mine will be trammed out, and the stamps set fairly at work. Good progress has been made in sinking the winze, from which favourable samples have been taken, and the stone presents as favourable an appearance as from any other parts of the mine.

pronounces the Serra Velha to be one of the best mines hitherto discovered in Brazil.—John Hitchers.

Survey of the Serra Velha, by Capts. John Hitchen, Thomas Kinsman, and Thomas Martin (formerly of the Gongo Soco Mine).— The formation on the southern side of the Serra Velha forms a powerful bed, presenting a thickness of from 40 to 50 fins, but varies considerably in thickness; it is, however, much larger in the vicinity of the present works, than we have seen it at any other part of the Cocaes estate. The most extensive lode, or auriferous part of the formation, which has hitherto been opened since the late discovery; is at Oxenford's stopes; these stopes are opened to a width of nearly 5 fins. long, and 24 fins, high. This we consider to be a fair proof that the discovery is not merely a shoot, or deposit of gold, by the continuation of any vein or line, which may be supposed to have come down in a soft layer of jacotinga—for instance, the lode at Waller's stopes (in the shallow adit to Waller's shalt), which is 50 fins. west from Oxenford's, is just the same thickness, and the safe kind of stone, and profitable stoned for the stamps; here it can be easily understood, that from the western extremity of Waller's to the eastern of Oxenford's stopes, is nearly 60 fins. Any part of the iron mica slate about or near our works, broken and pounded, shows gold in the batea. The constituent parts of the jacotinga are iron, mica, and quartz—the latter generally of a very soft nature, or decomposed state; but in the lode which we are now working, the quartz is very hard and compact, as well as the iron mica slate. A place in the side of the Bandeira level is now opened for sinking the winze, mentioned in last report, which will now be commenced; here the lode is also found above Oxenford's stopes, about 13 fins on the inclination of the lode; a sample has been for the stopes, about 13 fins on the inclination of the lode; a sample has been slong abandoned, every place was found either crushed together, or very much out

ready opened with in a snort time, give returns sumetent to meet any expense, which will be requisite at this mine.

PACHUCA MINES.—April 27.—Rejona.—The clearing of attle in this mine has been suspended since the latter part of last month. At San Miguel the lode in the shaft is again presenting a favourable appearance—is becoming softer, and producing promising pintas of metal, although the assays do not exceed 4 or 5 mcs. per monton. It should be remembered, however, there is a large part of the lode remaining unexamined on the south side of the shaft, but which we purpose cutting into at the 60 vara level.

Esperanza.—In the Esperanza shaft there seems to be no decided alteration in the nature of the vein, although we have latterly met with stones of ore, of a kindly appearance, containing from 12 to 15 mcs. per monton. The great mass of the vein, which is from 5 to 6 varas wide, is still composed of white quartz and red jabones. Seeing a similar kind of vein in the 95 vara level, driving west of San Buenaventura, we deemed it prudent to suspend this work, and carry on that of the shaft only, which we hope will, at a greater depth, discover ore.

quartz and red jabones. Seeing a similar kind, of vein in the 59 vara level, driving west of San Buenaventura, we doemed it prudent to suspend this work, and carry on that of the shaft only, which we hope will, at a greater depth, discover ore.

Guadaippe.—In this mine we have for the present suspended the sinking of the shaft, as Capt. Trensar reported the vein to be unpromising; but I have ordered men to be employed in driving the 108 vara level north-east, through the channel of ground referred to in former letters, in the hope of discovering ore on the eastern side. We are still sinking the shaft of San Pedro; the vein is very wide, exceeding 16 varas; and as the ground is easy, and contains a level of about 5 mea, per monton, I think it worth while following down, in preference to driving a cross-cut from Guadalupe, at the 108 vara level.

San Gabriel.—In consequence of the scarcity of labourers, the shaft has only been cleared about d'varas; but it is now taken by a good party of men, and I expect soon to reach the bottom.—Total expenditure in March, \$1466.

REAL DEL MONTE MINER.—Mineral de Monte, April 27.—Tour dispatches, of the 28th February, came to hand on the 17th inst. I have not failed to notice, for some time past, the advantages which Mr. Bowring's process has obtained over that of Moreno; and you will perceive by the accounts, that the patio at Regla has been wholly conducted on this plan, since Mr. Bowring's departure, by Mr. Woodfield, and with good effect, particularly in the last three months. The barrels continue to give very uniform results, both with respect to the loss of silver, quicksilver, and cost of beneficio; and as by thus method all classes of ore can be equally beneficiated, I think that after a while it will, probably, supersede the patio entirely, especially as by Mr. Spangenberg's improved method of calcining the ore, the barrels will, in future, be discharged once in 12, instead of once in 24, hours. Mr. Spangenberg has consented to take this department for a short time und

whereas only 730 were wasned—leaving a surplus of 157 introduced condition of the costs and returns for March, it will be seen that the total sliver produce amounted altogether to only 27 bars, comprising 12 from Regla patio, 9 from the fundiciones, and 6 from Sanchez—total value, \$32,000. The mines' costs amounted to \$25,400; general expenses, charges on produce, alimentos, &c., \$6589 ; and the haciendas, \$22,270—making a total of \$54,360, thereby showing a loss of \$22,380. The reason of the small returns from the fundiciones I explained in my letter of last month—namely: the breakage of the main rods in the Dolores diagonal shaft, which prevented the working in the Santiago level west, and in the San Enrique and San Pablo bottoms, and which compelled us, for upwards of a fortnight, to suspend the working of the fundiciones. During this time also, it should be borne in mind, that Acosta Mine was nearly full of water while Terreros engine was being erected; and, besides this, there was not less than \$8220 for stores at Regla, brought into this month's account, which should have been entered two months before; there were also \$2820 charged for materials, &c., for San Antonio hacienda. For the present month the returns will, I expect, be something better than the estimate—say, about 42 bars—and even during this time we lost nearly one week's work on the best labores, on account of the holy week. However, after all these misfortunes and drawbacks, I have the satisfaction of informing the directors, that our prospects of future rotarns have, of late, decidedly improved. In the last week there will be seen a notable increase, both of azogue and smelting ore;

the latter, however, is, at the present moment, of the greatest importance—and as you will perceive by Capt. Rabling's report, that the lode in the Santiago level, west of Dolores, is about three quarters of a vara wide, a large portion of which is smelting ore, assaying 150 mcs, per monton, while the remainder is asogue, containing from 25 to 30 mcs, per monton; and taking into consideration that this place is about 15 varas east, and 17 varas below the San Pablo winze, there is reason to expect that the whole of this piece of ground will turn out to be productive. I, therefore, venture to estimate for next month a profit of \$13,300; and, as this ore ground seems to be lengthening in the Santiago, there is every probability of its continuing for a considerable time to come; I expect, therefore, we shall go on making profits for the remaining part of the year—if the ore continues as at present, there can be no doubt about it. By Capt. Skinfill's report, you will be informed the last new engine at Acosta was put to work on the 2d inst. I trust we have at last overcome all difficulties, as the engine works remarkably well, and keeps the water very easily. Capt. Skinfill's peaks of a winze called San Pascual, situated 246 varas south of Acosta, below San Antonio level, in which there is a bunch of smelting ore about a foot wide, which assayed on Saturday last upwards of 200 mcs, per monton. This winze is in the neighbourhood of San Cayetano, where we raised some very rich ore in May last; but the lode is very bunchy, and we cannot, therefore, place much reliance upon a continuance of this class, although of azogue ore there is great probability of its being found in abundance. At Rosario the raising of ora has got up to near 350 cargas per week; the mine assays average from 9½ to 10 mcs, per monton, and I expect will give about the reliance are no means of reducing it, I propose contining the raisings to mercy lasticient to supply the hacienda for Sanchez.

ST. JOHN DEL REY MINES—Morro Vello, Feb. 27.—Hoads workin

about 20000, sterning.

UNITED MEXICAN MINES.—Guanaxuato, April 24.—Mine of Rayas

—I inclose Mr. Glennie's report upon this mine, to the 23d inst., and must refer
you to that for the state of the workings. The general produce of the mine for
the last four weeks presents the following statement:—

wks.end. Picked ores.
Mar. 21.—Cs. 1985
Apr. 10. ,, 1879‡

reduced my stock; I have, therefore, purchased a small lot that was offered me at a moderate price, and further purchases will be necessary before the first shipment from England can possibly reach here.—W. Heath.

Report on the State of the Workings of the Mine of Rayas.

April 23.—La Purisima.—The system of work mentioned in last month's report, is still being pursued on this side of the mine, without any material variation in the produce.

San Lorenzo.—In consequence of a communication between the two workings that were being followed up in a small piece of sold vein, the produce from this part of the mine increased for two or three weeks, but has now again some what decreased, resulting from the absolute necessity of securing the upper part of the lode, by raising dry walls for that purpose; and, until these are completed, the operations of the barmen are on a more limited scale: 10 pair of barmen have been employed by day and 11 pair by night.

San Cayetano.—The ore met with on the north-west side of the pit of La Luz, proved to be of such an ordinary character, and also expensive in picking after having been extracted, that the barmen have been removed to San Miguel, where they are employed to more advantage.

San Miguel.—In one of the workings, San Dario, on this side of the mine, a decided improvement has taken place during the last fortnight, similar to the favourable changes which not unfrequently present themselves in these workings, but which hitherto have, unfortunately, not been of long duration; some threads of ore, of good quality, are now found running through the common classes, which have likewise increased in quantity. The other workings have not varied since the last report: 13 pair of barmen are now employed by day, and an equal number by night.

Santa Toribio.—In four weeks 6:48 varas have been driven towards the upper body of the lode.

The purpose of the lode.

San Manu o.—Since the last report is pair of barmen are now employed by day, and an equal number by night.

Santa Toribio.—In f

BOTALLACK MINE.—The general prospects of the mine were never so good especially in the tin ground. The monthly returns of copper is expected to be considerably increased in about four weeks from the present time, as the 124 fm. level will be shortly under the 115 fm. level, where a bunch of ore held 50 fathoms in level. 50 fathoms in length.

CUBERT CONSOLS (late Wheal Golden).—This sett, which was formerly worked for silver-lead ore, and abandoned about 20 years since, through a dis-CUBERT CONSOLS (late Whenl Golden).—This sett, which was formerly worked for silver-lead ore, and abandoned about 20 years since, through a disagreement among the adventurers, has been taken up by some enterprising adventurers, and a prospectus will be immediately issued for the formation of a new company. It appears, although abandoned, some of the parties intended to take it up at a future time, as all the pit work, pumps, flat-rods, &c., have been left in the shafts and levels, and, having been ever since under water, are supposed to be in good condition. From the statements of many miners in the neighbourhood who worked in this mine, it appears, that formerly a smelting-house was attached to the works, and that ore was raised faster than they could smeltit—the quantity being from 30 to 90 tonsper month; 10 to 13 kibbles generally raised a ton of ore, and each fathom produced on an average 50 kibbles of ore. They all state, that the moment the water is in fork, a number of tribute pitches might be immediately set, and that in the bottom level, north of the engine-shaft, the lode is II in. big, nearly solid; the last two months, previous to stopping, 50 to 60 tons per month were raised, at a cost of only from 40s, to 60s, per fm. The following is a report on this mine, from Captain Pill, of Perran St. George, dated May 29, and which is fully borne out by one we have seen from Captain Wobb, of Rose Coasols and Wheal Dy've:

—"The 45 fm. level is driven north of the engine shaft about 100 fms., and south about 70 fms., and has been productive to the north. The 50 fm. level is driven north of engine-shaft about 90 fms, and kindly. The 66 fm. level is driven north of the engine-shaft about 90 fms, in length, worth on an average 24 tons per fm; driven south of engine-shaft about 90 fms, and any of the others. This mine is the best lead mine I ever saw in my life, and any of the others. This mine is the best lead mine I ever saw in my life, and

n stopped, but for disagreement annual columns will be found an advertisement from the overy information of the new engineers. dvertiling columns will Co. who will show a

Nonra Fowny Consor. — The first casting of the new engine (40 in. cylindry, now in course of erection on this mine, was delivered on the 6th inst., and activity pervades the different operations—while the sump shaft, to which as a strength of the sum of

have yielded returns to so considerable an extent, renders it a favourable adventure, and of which a high opinion is entertained by parties here.

TRUTHAL DOWNS TIN AND COPPER MINE (situate in the parish of Sithney).

— The sett is contiguous to, or only about a mile and a half eastward of, the celebrated Wheal Vor and the Great Work in mines, half a mile north of the rich tin mines of Wheal Trumpet and Wheal Ann, and about a mile from Wheal Lovel, and the formerly well-known very productive tin mine, Trevenen. Its extent is about half a mile in length, and nearly as much in width, wherein several most promising lodes are already discovered, but the immediate object of the present proprietor, who will continue 1-16th of the undertaking, is to recommence the sinking of the engine-shaft, now about 20 fms. deep, upon the course of the lode upwards of 12 ft. wide, producing fine stones of tin and copper ore, iron pyrites, fluate of lime, quartz, chlorite, &c.; and, in short, abounding in such appearances as leave mo doubt with experienced miners of its leading to a rich deposit of tin, in sinking a few fms. at most. It is at present intended to continue to sink the engine-shaft upon the course of the lode, until a valuable deposit of metalliferous ore shall be met with; it is easy, therefore, in the absence of immediate returns, to calculate the utmost amount of monthly expenditure, after a steam engine, which it is proposed to creect, shall be completed; though there is a positive certainty of making returns to some extent, from the commencement. It is proposed to divide the mine into 1000 shares, at 39, 10s. per share, and worked on the cost-book system.

WHEAL CREEG is situated near the north coast, in the parish of Perranza-

extent, from the commencement. It is proposed to divide the mine into 1000 shares, at 37. 10s. per share, and worked on the cost-book system.

Wheal Creeg is situated near the north coast, in the parish of Perranzabulee, in the county of Cornwall, and about 300 fms. to the east of Perran St. George United Mines; within this sett, are various tin, lead, and copper lodes. In the year 1834, operations were commenced in this mine by a respectable company of Cornish gentlemen, who expended upwards of 3000l. in extending add levels through and from adjoining setts towards the old mine to unwater it, which some considerable time previously had been worked to the depth of the adit level by "old tinners," and from whence enormous quantities of tin had been raised; but in consequence of some of the adventurers being in arread of cost in the year 1844, the company became dissolved, so the object of this outlay still remains to be accomplished. Those adits will certainly be of very material advantage to the future working of the mine, inasmuch as it is a vast amount of work done towards the accomplishment of the object. It is proposed to divide the mine into 128 shares.

West Shephereds Mine.—This mine is looking as favourable as ever, and bears indication of even greater improvement; it is now 17 months since the present agent (Captain Skewes) resumed the working of the sett, and during which time efficient machinery has been erected for the draining of the mine, drawing stuff, crushing ores, and for other necessary purposes; several scores of fathoms of ground have been explored; a good lode of silver lead ore has been discovered; and several tons of this valuable mineral have been brought to surface, leaving a rich lode to work upon in the bottom of the level, when it is cut at a greater depth, to drain off the water that is now flowing over it. The engine-shaft has been sunk to a deeper level, and a cross-cut is in course of driving to cut the lode, which will be done very shortly. The mine is held by a few adventurers

ABERDARE AND ABERNANT IRON-WORKS AND COLLIERTES.—The sale of these properties, under an order of the Court of Chancery, in the cause, Scale v Thompson, Fothergill, and others, took place, pursuant to advertisement, at the Gray's Inn Coffee-house, on Thursday, the 11th inst. The room was attended by parties interested in the iron trade, among whom we noticed Mr. Alderman Thompson; Mr. C. Bailey, Nantyglo Works; Mr. C. Harford, late Ebba Vale Works; Mr. John Powell, Clydach Iron Works, Mr. A. Hill, Plymouth Iron Works; Mr. Forman, Penydarran Works; Mr. Forthergill, Tredegar Works; Mr. Scale, and others. The biddings for the property may be considered as almost confined to the two former gentlemen, the property being knocked down to Mr. Ald. Thompson. at 75,000L, subject to the stock, plant, &c., being taken at a valuation, which, we were given to understand, was estimated at 60,000L to 65,000L.—rigisling the entire purchase 140,000L. This is, however, we consider an insignificant sum for the works, as they stand now, in active operation, and making 350 tons of pig-iron per week, with capabilities to render 250 tons of bar or rolled iron. With reference to the stock, nothing transpired as to the principle on which its value was to be estimated, which appears to us to be an oversight, as there can be no question that ironstone, for instance, may at one period be comparatively worth 20s. per ton, and another only 5s., although the cost of raising may be 10s. or 12s. per ton. This is a matter of some little moment, and we think it strange should have escaped attention. Works; Mr. Forman, Penydarran Works; Mr. Forthergill, Tredegar Works;

THE KENMARE MINES, ARDTULLY, IRELAND.

At the present time, when the mineral wealth of Ireland is attracting Sir.—At the present time, when the mineral wealth of Ireland is attracting some of the attention of capitalists, and when two new mining companies are formed especially for working the mines of Ireland, allow me to call to their notice the copper mines of Kenmare, in the county of Kerry. I have some recollection of the working of these mines in 1840 by a London company; and that the specimens of ore (the blue carbonate), as analysed by Mr. P. Johnson, of Hatton Garden, were stated to produce 40 per cent. of copper, and 17 ozs. of silver, to the ton of ore. Now, Sir, can you, or any of your readers, inform me, through your valuable columns, if they are now working, either by a company, or privately by Mr. Dillon Croker, the proprietor of the manor of Ardtully—or, if entirely abandoned; and, if so, from what cause? A FRIEND TO IRELAND.

**London's Arthur Mr. WHEAL (COCK AND NORTH ENTERS MINES)

BOTALLACK, WHEAL COCK, AND NORTH UNITED MINES.

BOTALLACK, WHEAL COCK, AND NORTH UNITED MINES.

TO THE EDITOR OF THE MINING JOURNAL.

Sir,—In your last Number, we read, in sequence, notices of Botallack, Wheal Cock, and North United Mines. These three mines being all in the same locality, I cannot be mistaken in contradicting your communication as to the North United Mines: it is true they have some favourable appearance at the point spoken of; but abominating, as I do, all attempts at exaggeration, I cannot allow the notion to prevail, that the mine is "considerably improved," or that there is a "good course" of ore in any part of the mine, although I think well of the speculation. I believe those who know most of the state of the mine are most puzzled to know how the report originated.

A MOLE.

MINERS' CLUB.

MINERS' CLUB.

MINERS' CLUB.

TO THE EDITOR OF THE WEST BRITON.

TO THE EDITOR OF THE WEST BRITON.

SER,—The letters of Mr. Paynter and "A Cornish Miner," I trust, will not be overlooked by those who can alone effect the object at which they aim. It was my hope that the "Miners' Society" would have done this good, among myny others; but, alas! like too many, the offspring of the wise and good, it died for want of support. The labouring miner is the "first" adventurer; and we cannot see him, after the waste of his energies and his life, coming to the "Union" for a miserable support, without feeling he has deserved better—much better. He has contributed to the mine club, but having no "visible hurt" (the pale face and labouring chest are not "visible!") he is told at the mine he is not entitled to support. To say nothing of this great injustice, ought there not to be in every district a club, based upon such principles as should amply take care of the labouring miner, when, through age, accident, or disease, he is unable to work? To effect this, it only requires that fords and adventurers should take it up. Passing by the benevolence of the object, is it not for the advantage of "all" that the working miner should provide for himself? This involves the miner's present and future welfare. It would lessen the heavy burthens that fall upon the rate-payer—especially the poor rate-payer. It would be a comfort and support to the labourer to know that he would not be driven to the relieving officer in the event of his health and strength giving way; and, let it be renumbered, that "destitution is demoralising." There is every reason why those whose duty it is should give this subject their best and immediate attention.—A Courstsuan.

Assauration.—The Old Whidden Tin Mines, on the lands of Mr. H. Caunter and Mr. E. Smendon, are commenced working by clearing the main adit; it is expected that these works will be a profitable undertaking; as it is probable, that a stop was put to them for want of improved machinery in the last century. At West Beam the main shaft is sinking much deeper, the present depth being about 400 ft.—Penzance Gazette.

Bandon and R.—Francase Garette.

Bandon water Founday, Mear Manonester.—A very gratifying testimonal of respect has been paid to the forement of Mesers, Nasmyth, Gaskell, and on the workmen gave an entertainment at the Unicorn Inn, Peel Green, and remarks him with a splendid silver cup, value 40, with the following inscription——Presented to Mr. A. R. Torry, by the workmen of the Bridgewater coundry, Patricroft, as a mark of their esteem—June 3."

PACHUCA MINING COMPANY.

mual general meeting of proprietors was held at the offices Adelphi, on the 28th ult.-Sir ROBERT PRICE, Bart., M.P., in the chair.-Adelphi, on the 28th ult.—Sir Robert Price, Bart, M.P., in the chair.—The circular convening the meeting having been read, Richard Williams, Esq., was re-elected an auditor. The statement of accounts submitted, showed, as receipts—balance from last account, 17281. 16s. 8d.; second instalment, 20001.—together, 37281. 16s. 8d. Disbursements—bills drawn from Mexico, 26001.; for salaries, income tax, and general office charges, 2291. 17s. 11d.—together, 28291. 17s. 11d.—leaving balance at bankers of 8981. 18s. 9d. The expenditure account showed the cost of management as \$3846.5\frac{1}{2}; tutwork, \$7716.1\frac{1}{2}; stores and sundries, \$2545.4—together, \$13,608.2\frac{2}{2}; which, with the expenditure during 1844.0f. \$13,111, makes a total cost, up to the 31st December last, of \$26,719.2\frac{2}{2}.

The following report from the directors was read to the meeting—

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REFORT

The period for holding the annual meeting of the shareholders of the Pachuca
Mining Company having arrived, the directors now submit the usual accounts,
and a report on the state of the mines as communicated in the letters from
Mexico to the 28th March last. By the account of sumecharged to the mines
in Mexico, it appears that the expenditure in the year ended 31st December
last, amounted to 813,608 2.5, which added to 813,111 in the year 1844, makes
the whole outlay of the company amount to \$26,719 2.5. This sum has been
very economically applied in the prosecution of several important trials in the
mining ground held by the company; and although the Rejona Mine seems
likely to be a failure, from having been previously worked more extensively
than expected, there are some very promising indications in the other mines
which the directors trust will shortly lead to discoveries of silver ore in abundance.

Emeropasa.—Since the last annual report, the shaft of this mine has been sunk

which the directors trust will shortly lead to discoveries of silver ore in abundance.
Esperanza.—Since the last annual report, the shaft of this mine has been sunk
75 varas, the total from surface being '140 varas. At this depth a favourable
change appears to have taken place in the vein, which, although not rich, contains silver. Capt. Trenear reports four assays from the mine, of which one,
6 varas above the bottom, gave only 13 ozs. of silver per monton; while a stone
from the bottom of shaft yielded ½ marcs; and Mr. Rule, who wrote four days
after Capt. Trenear, states that the latter brought him an assay the day before,
which gave 15 marcs per monton, which it is hoped may prove to be an indication of the proximity of a course of ore in this mine, and particularly as the
shaft is approaching the depth at which Mexican mines are more generally
found productive. The 95 vara level from the San Buenaventura shaft, at the
eastern boundary of the Esperanza pertenencia, has been driven 140 varas upon
the vein, and has occasionally passed through small bunches of ore. One object of this level is to cut the Grande vein, which intersects the Esperanza vein
somewhere between the present end of the level and the Esperanza shaft. The
Grande vein being very productive within about 150 varas of the company's
ground, there is more reason to expect discoveries of ore at or near the point of
junction of the two veins.

Grande vein being very productive within about 150 varies of the consequence of the two veins.

Santa Clara and Guadalupe.—The 108 varies level from Guadalupe shaft having been driven about 30 varies on a large vein yielding some ore of good quality, intersected a cross channel, 15 varies wide, of poor ground, which threw lity, intersected a cross channel, 15 varies wide, of poor ground, which threw lity, intersected a cross channel, and it has not vet been discovered on the other side.

ing been driven about 30 varias on a large vein yielding some ore of good quality, intersected a cross channel, 15 varas wide, of poor ground, which threw the lode out of its course, and it has not yet been discovered on the other side. The shaft is now sinking for a new level. The old shaft of San Pedro, on a vein north of Guadalupe having been cleared to a depth of 31 varas, as now sinking at a cost of 38 per vara only. The vein is very wide, and the part sinking on is composed of white quartz, spotted throughout with ore. Captain Trenear states, that in the first week the sinking was commenced, a sample assayed 4 marcs, and the day before he wrote, an assay was taken, which gave 15½ marcs per monton, indicating an improvement in depth.

La Rajona.—The expectations formed of the old mine of Rejona have not been realised. The Providencia shaft being communicated to the old workings, these have been partially cleared, and the ground examined at a depth of 250 varas, but scarcely any ore worth returning appears to have been left in any part, and the vein, where exposed to view, is small and poor. The working has been for some time past limited to the clearing of the bottom eastward; and, unless some favourable change soon takes place, the mine will be abandoned. A very promising mine has, however, been opened in the Rejona pertenencia, called San Miguel. A pit, which has been sunk 29 varas, was cleared up, and the vein examined; and being found of a highly favourable character, the shaft was widened, and is now sinking upon the south part of the vein, composel of soft tierras, containing ore, varying from 6 to 12 marcs per monton, but lately disordered by a vough or cavity. The shaft is sunk nearly 50 varas, and at 60 varas it is proposed to drive a cross-cut to examine the north or hard part of the vein, which at 30 varas from surface is stated to be more than 5 varas wide, and producing ore of about 7 marcs per monton. This is considered one of the most promising mines in the district.

San Gabriel.—This mine

of the most promising mines in the district.

San Gabriel.—This mine is situated about 150 varas north of San Miguel, a shaft being sunk near the point where two veins join the principal lode, which runs east and west—one of which veins, at about 25 varas west, produced, it is said, near the surface more than a million of dollars. The object is to clear up the shaft, which is sunk about 29 varas on a vein 2 varas wide, containing silver. The trial appears to be a desirable one, and will cost very little money. From what is above stated, it will be seen that trials are in progress at six different points in virgin ground, and that two or three of these afford indications of a speedy approach to productiveness. Much work has been done at a very moderate cost, owing, in a great measure, to the mines not requiring the application of any drainage power; and the same economy will be observed in the future prosecution of the operations, which will still be strictly confined to the underground works requisite for an efficient trial of the mines, until the latter become productive. The average cost has been about \$1100 per month, which will not be exceeded during the current year. To meet this expenditure, a call is now made upon the shareholders of 10s, per share, which will carry on the concern to the end of the year, when the directors will be better able to judge as to the future prospects. The directors believe the undertaking to be one deserving the confidence of those engaged in it, and they see no reason to doubt that it will be eventually profitable.

The report of the directors, and statement of accounts, were unanimously received and approved; and the thanks of the meeting presented to the directors, for their attention to the affairs of the company, when the meeting separated.

directors, for their attention to the affairs of the company, when the meeting separated.

The GENERAL MINING COMPANY FOR IRELAND.

The first general half-yearly meeting of the shareholders of this company, was held on Monday, the 1stinst, at the offices, Lower Sackville-street, Dublin. There was a numerous and highly respectable attendance.

Si JAMES MURRAY in the chair.

The CHAIRMAN said, that from the position conceded to him by their kind partiality, he was expected to make a few observations. He would not detain them long by a recital of their endeavours to organise and consolidate a new mining company upon a durable and profitable foundation. There had been inducements to the undertaking. They had before them reasonable prospects of fair profits, and also the motive of affording work and wages to many families. They had seen that, whilst the people of the country were scrambling for miserable half acres above ground, there were thousand of acres of metals and minerals noglected below it; that the capital invested in railways was very great, whilst its return was distant and small—and that a more safe and certain investment could be made in mines, now that railways were laid out near them; that very improved modes of raising and smelting ore had been discovered, and that the working people began to show, by their fidelity to temperance, that they were able and willing to work, so as to merit the confidence of their employers. Most certainly they (the company) never would have risked their time or capital had it not been for the happy change resulting from the sobriety of workmen. From several sources of good, information, and from the personal knowledge of some of the proprietors, it had appeared evident to them, that there was sroom enough for at least one more active and industrious mining society, determined to proceed with energy and economy, and resolved not to gamble or gain by shares on the Stock Exchange, but to profit by the legitimate proceeds resulting from thonest national undertaking. When th

manner; so much so, that their ores already raised, and their property in implements, machinery, and stores, would now bring at least 1000l above cost, clear to their credit. The secretary read the requisition convering the meeting, and then the following:

Employ the people, and surish your committee consulted together in Ogtober, 1845, and, after mature deliberation, decided upon following the good example of the Mining Company of Ireland—a company whose industry reflects credit upon its directors and indefatigable secretary. Without any intention of competing with other mining interests, but encouraged by several recent mineral discoveries, by the advantages of steam for working machinery, the facilities now afforded for exporting ores, and by the patriotic recommendations set forth by Sir R. Kane, your committee succeed in perfecting afrangements by which your company was organised and completely registered on the 17th of February last. Owing to the depression which has since prevailed in the money market, your directors deemed it prudent not to make a call upon the shareholders until the pressure should abate. Although the original prospectus authorised a call of 22. 10s. per share, after complete registration, yet your directors (with a view of accommodating the proprietary) have decided upon making a first call to the amount of 10s. only per share. By judicious management, your directors trust that the amount receivable from this call will suffice to carry on your works during the current year, continuing to afford work and wages to a large number of individuals and their families.

The interval, since the date of complete registration, has been employed by your directors in collecting information, and treating for such mines as were most likely to prove advantageous to the proprietary. They have takem at a royalty rent the lead mines of East and West Shallee, together with the machinery thereon, upon the level of silver mines, in the same vicinity, near Neangth.

The intervals indications, are secured a

Shallee Lead Mine.—These royalties embrace 1000 acres of mining ground, within 14 miles of Limerick and five of Killaloe. There are 40 miners raising ead, and earning good wages on tribute, being proportioned to the quantity of the proportion of the quantity of the proportion of the proportion of the quantity of the proportion of the quantity of the proportion of the proportion of the quantity of the proportion of the prop

of ore they raise.

Lackamore Copper Mine is situated about 12 miles from Limerick, and is extensive, having the range of lodes in veins nearly an English mile in length. There are here an equal number of miners raising copper also on tribute; and as soon as your directors are enabled, they will extend the works where they are confidently advised that the result will prove successful There is abundant and excellent machinery on this mine, consisting of large water wheels, with crushers and stampers, &c. To conclude, your board confidently hope, that when they have the pleasure of submitting their next half-yearly report, their exertions for the benefit of the company will prove still more satisfactory. We repeat them—continue to employ the people, and enrich yourselves, by developing the vast resources of the country—unite your endeavours still more to carry out the advantages which are now within your reach, and you must undoubtedly prosper.

The statement of accounts was then read.

Indoubtedly prosper.

The statement of accounts was then read.

Mr. O'Driscoll said that, after the very satisfactory report which had just been read, his observations would be almost superfluous. The report, however, was so borne out by the balance sheet, which reflected so much credit on the gentlemen who originally took up the project of that company, and so successfully, and with so much economy, carried it out, that he could not sit down without making some few observations. Undertakings of that description in Ireland were very rare indeed, principally because of their unacquaintance with the mode of carrying on mining operations, so successfully practised in the sister country. Those which had been attempted in Ireland, few as they were, held out to the proprietors—he said it advisedly—prospects of gain unequalled by those of any other undertakings. They in no way partook of the transitory character of railway speculations. Turning to the few mining operations which had been carried on in Ireland, they certainly had something like a prestige of what that company ought to be, and what it certainly must be under the judicious management that had hitherto guided at. The amount of the premiums which were at present attached to the shares of all the English mining companies, was a useful and a startling fact for gentlemen to be aware of. It seemed almost absurd to be told that shares which were issued at 104 were selling for 3900 in the English markets. That was beyond all doubt; and when he stated it, he did not exceed the average amount of the premiums estimated on well-conducted mining concerns in the sister country. Take their own mining company, and contrast its shares with those of all the other undertakings of that country, and look at the amount of interest paid to their proprietors. Under these circumstances, he thought himself warranted in saying, that a company formed like that, of gentlemen who had so kindly taken up a national project, having such objects as theirs steadily in view, and having at at its head a man of character and intelligence like their chairman, who devoted to it so much of his time, and the valuable experience with which very many years close acquaintance with mining operations had invested him, would be attended with success even beyond expectations founded on a close calculation of all the facilities which would be at their command. Though not very competent, he (Mr. O'Driscoll) was not without some little experience in mining matters. He had visited some of their mines, and was astonished to find, that they had such fruitful elements of prosperity within their country. They had certainly paid a happy and a very well deserved compliment to the secretary of the Mining Company of Ireland. He had known for a good many years the secretary whom they had selected, and if his testimony was of any service to him, he should say that, though the Mining Company of Ireland had got a very indefitigable and wise secretary, he thought that these qualifications also belonged to their own. He moved the adoption of the report and statement of accounts. Mr. Jones seconded the motion, and observed that it was a gratifying thing to receive such a report, and to see it so highly approved of.

The motion was put and earried.
Mr. Santh moved, that Mr. John Kield and Mr. William J. O'Driscoll be appointed auditors for the ensuing year.
Mr. Phillip Jones seconded the motion, which was put and carried.
Dr. Brady said he did not know whether it was in order for a director to speak on a matter connected with the company at that meeting; but there was one which they were all so much interested in, that he thought they would excuse him from bringing it before them—it was on the part of a gentleman, a proprietor of that company, whose aid had been so useful to them and beneficial to the public. During the panie, and the time when they particularly stood in need of friends willing, and in a position, to assist them, in him they bad found one of essential importance to them, and

a gentleman, a proprietor of that company, whose aid had been so useful to them and beneficial to the public. During the panic, and the time when they particularly stood in need of friends willing, and in a position, to assist them, in him they had found one of essential importance to them, and probably without whose aid they would have been unable to advance, certainly not occupied the position they now did. There was no company on record which had advanced without capital as they had done. At present on a capital of 900!—2s. 6d. a share having been paid up—they reported their expenditure to have been about 400! Without friends few of them cauld get through the world: and in the critical period in which that company commenced existence, they would have been swamped in the general ruin but for one individual, and that was Philip Jones. (Hear, hear). By his position, as a leading merchant in that chy, had they been kept afford—by him had their character, and their credit, been maintained. He, therefore, moved, that the best thanks of the meeting should be given to Mr. Jones, for his kind and valuable assistance to them when they stood in need of it.

Mr. O'Connon seconded the motion—and, in doing so, he would take the liberty of asking some questions in reference to an arrangement of which he had heard, and as to the company's affairs in certain particulars.

The Charman — Let the voter first be disposed of Mr. O'Connor, after which you shall be heard, and your questions answered.

Mr. Jones returned thanks for the manner in which Dr. Brady had brought him before the meeting, saying that he did not consider himself worthy of the high encomiums which had been passed on him. He could only say, that it was still his wish to benefit the concern as much as he could.

Mr. O'Connon then asked some questions relative to items in the account, and to other topics connected with the company, concerning which he was informed by Mr. Jones and Dr. Brady, who read and explained the several items of the belance sheet; at which Mr. O'Connor and several other share-holders expressed themselves perfectly satisfied; and Mr. O'Connor expressed a favourable opinion as to the prospects of the company.

Mr. QUINTON was then called to the chair.

Mr. O'CONNOR moved a vote of thanks to Sir James Murray, for his dignified conduct in the chair.—The motion being seconded and carried, Sir James Murray returned thanks. Their kindness made him resolved to promote the interests of the undertaking with redoubled vigour. He was obliged to them all, and he trusted they would all know yet the extent to which that concern would profit its shareholders. Humanity lows of country, and employment for the poor, were all very good; but they must be joined in pablic undertakings, with the means of carrying them out, and the hope of a realization of a fair and reasonable profit.

A vote of thanks was then passed to the directors, after which the meeting separated.

ing separated.

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COMPANY OF COPPER MINERS IN ENGLAND. X A special general meeting of the holders of shares in this company, was held ursuant to advertisement, at the offices of the company, 57h Old Broad street, on Friday, the 12th inst.

A. L. Gower, Esq., Governor, in the chair.

on Friday, the 12th inst.

A. L. GOWER, Esq., Governor, in the chair.

The CHARRMAN, in opening the proceedings, stated, that the meeting had been convened, to receive a report from the board of assistants, who, by the meeting, held on the 8th of April, were deputed to carry out the objects of the general meeting, in raising an additional capital, with the view of paying of certain advances made the company, and also of extending its operations, while it was with pleasure that he stated, of the 20,000 preference shares, which had been proposed to be created, 16,000 had been taken up—the board reserving to themselves the privilege of issuing the additional 4000, should they deen fit to do so. Since the previous meeting, the rolling mill had been put to work as also another furnace put in blast. He (the chairman) would read to the meeting the resolutions at which the board of assistants had arrived at the meeting heldon the 9th April, as also at a subsequent meeting, which were in effect as follows:—That the original shares, into which the capital of the company was divided, should henceforth be considered at 502 only; and that, on the payment of the difference necessary to make up such sum, by those who may have subscribed a lesser amount, they would be freed from all future liability, and, furthermore, entitled to two preference shares of 25t. each, payable by instalments, or otherwise, on which interest at the rate of 7½ per cent. on the amount paid up would be receivable, antecedent to any dividend being made on the original shares. The chairman further observed, that the proposed deed or instrument, to be executed by the new shareholders, or those holding preference shares, had been drawn up with extreme care by the solicitors of the company, Messrs. Tilson and Squamce, and by Messrs. Blunt; and, moreover, had been submitted and approved by comsel. Mr. Squance, who was present, would readily afford any information which might be desired by any proprietor. It may here be stated, that in such cases, when a sum

which the holder is entitled, thus making the further payment of 30l. equal to the two additional shares of 25l. each.

The resolutions submitted by the Governor, having been read, confirmatory of the course taken by the board of assistants, were unanimously confirmed.

Mr. Squaxce proceeded to direct the attention of the meeting to the several olauses in the deed, and to afford such explanation as was rendered necessary by the inquiries on the part of several proprietors, which, indeed, is conveyed in the explanation of the scheme above inserted.

Mr. Canter begged to direct the attention of the governor and board of assistants to the desirableness, at their future meetings, of accounts being readered, for, however high was the opinion entertained by himself and others, of the integrity and high standing of the gentlemen in whom the proprietors reposed their fullest confidence, yet he considered, by more openness being observed, the good opinion of the public would be secured, and a kindly feeling engendered. He did not wish to convey the slightest distrust; but, in making the observations he felt called upon to submit to the chairman, he felt he was advancing the interests of the company.

The Governon, in reply, observed, that there were considerable difficulties

the did not wish to convey the singulate district; but, in making the observations he felt called upon to submit to the chairman, he felt he was advancing the interests of the company.

The GOVERNOR, in reply, observed, that there were considerable difficulties in the way of complying with the request of the hon, proprietor; the subject had been frequently canvassed by the court, but the obstacle which presented itself was, that the company—unlike those for banking purposes or railways—was, in fact, a trading company; and that to communicate the private matters to a public meeting, would be to inflict injury on the shareholders generally, as it would affort their rivals in trade an opportunity of knowing the nature of their business. He was happy to say, that the hon, proprietor was perfectly correct in his assumption, that the dividend of 5 per cent., which had been declared, was out of profits. He might further observe, without however pledging the court to any particular course, that the idea had been entertained of appointing two auditors from the body of proprietors, who, by inspecting and examining the accounts, would be an additional voucher for their accuracy. He begged to state, that it was only the question as effected the interests of the proprietors which had hitherto determined them on the course pursued.—Some general conversation having taken place, a vote of thanks to, and confidence in, the governer and court of assistants, was carried unanimously, and the meeting separated.

SELVER VALLEY MINING COMPANY.

SILVER VALLEY MINING COMPANY.

The first annual general meeting of the shareholders was held, pursuant gircular, at the offices, 44, Finsbury-square, on Friday, the 12th inst.

The first annual general meeting of the shareholders was held, pursuant to circular, at the offices, 44, Finsbury-square, on Friday, the 12th inst.

Richard Hodoson, Esq., in the chair.

The Chairman, in opening the proceedings of the day, adverted to the reports, subsequently read from P. N. soluson, Esq., and Capt. Prince; and, at the same time, observing on the additional ground granted by the Duchy of Cornwall, of the land known as Wheal Sisters, at 1-15th dues, and thus forming, with the Wheal Prosper and Wheal Brothers Mines, a sett of some extent, and, judging from the past, of high promise.—The accounts submitted will be found in the accompanying abstract—while it was understood, that the machinery now being erected, and the mine "in course," that the future monthly expenditure might be estimated at 4002, which would, doubtless, involve the necessity of a further call, although he (the chairman) entertained the sanguine hope that, at their next meeting, he should have to congratulate the proprietors on returns commensurate with the outlay of capital, and the spirit displayed in its application. He regretted the absence of Mr. P. N. Johnson, from whom, however, a communication had been received, which would be read. He might observe, that about 1½ tons of silver ore had been raised, but he was not in a position to state its actual value. Some specimens of ore, which had been pronounced by Mr. Johnson as worth from 4s. to 4s. 6d. per ounce, or after the rate of upwards of 50000, per ton, were submitted to the meeting; but he (the chairman) was not in a position to say, whether the oreraised were worth 1000. or 10001. a ton. This information, however, would, doubtless, be rendered by Mr. Johnson, and, upon acquiring which, the adventurers would be put in possession thereof.

The following is an abstract of the accounts farmished, which, with the reports and some observations from one or two of the proprietors, in the slows

-First instalment on 2560 scares, at 21 £512	0 0	0	12
Second ditto, on 357 shares		0	
Interest 10	9 4	3	1
Balance 196	6	3-7554 10	8
8.—Amount paid adventurers of Wheal Prosper £ 12	8 0	0	
Expenses (R. Sergeant and others) to Jan. 31, 1845 5	2 15	0	
Cost for 12 months, ending March 1846 695	6	8	
Directors' attendance 20	0	0	
London management 200		0	
Petty cash 1	9	0-7554 10	8
The following are the reports referred to by the chairman	-	1.3	

The following are the reports referred to by the chairman:—

REPORT.

**Hearten, Becruston, June 9.—As I shall not be present at the first annual meeting of shareholders. I beg to send a few general observations on the operations of the mine, and the objects I have in view in carrying them out, leaving your agent (Captain Prince) to report in detail. Since the present company have commenced, the Wheal Prosper tin lode, and Wheal Brothers silver lode, have been put in a proper course of working, by the erection of an engine, placing efficient pitwork, and securing the ground. On the tin lode, the 20 and 30 fm. levels have been driven, and the shaft now sinking, and, from what is developed, proves it to be ansazing in richness in depth. The tin exists in chlorite, and is strongly mineralised with copper and iron pyrites, and about 5 tons of tin is at surface, in course of dressing. The silver (or Wheel Brothers) lode has produced about 1½ tons of silver ore, which is secured, but not yet prepared for sale. It is so short a time since the erection of the ongine, that but little ground is opened: and (as in all mining operations) time must be allowes for this purpose, I calculate that to open the ground in an efficient manner, and keep on the necessary tatwork, it will require six or eight months, at a cost of

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about 400L per month, during which time some setums will, of course, be made both in the and silver ore, but to what extent, particularly with the latter, it is impossible to say. The dressing-floors burning-house for the tin, and 6 stamps, are succeed, and in operation; we are also building another water-wheel, which the locality will allow of working, by pooling the water. I am, by frequent visits and consultations with the agents, endeavoaring to put the mine into an efficient course of operation, with the structest regard to economy, consistent with spirited prosecution.—P. X. Johnson.

to decamy with above a working, by pooling the water. I am, by frequent visits and consultations with the agents, endeavoaring to put the mine into an efficient course of operation, with the strictest regard to economy, consistent with spirited prosecution.—P. N. Johnson.

June 9.—In handing you my report of the above mines for the general meeting of the shareholders, I will proceed, in the first place, to give you a detailed account of the buildings and erections which have been completed, and the work done, both at the surface and underground, preparatory to opening on the lodes. We have built an engine and boiler houses, bob pits, smithy, pitmen and sumpann's houses, coal yard, &c., and have partly rebuilt and repaired carpentors' and sawyors' house, offices, materials' and powder houses, agent's residence, assay effice, &c., &c., and have erected a combined cylinder steam-pumping engine, equal to a single engine of 52 in. cylinder, with capstans and shears, balance bobs and main rods, to which are attached 80 fms. of horizontal rods, connected to the main rods in the south, or engine-shaft, of sliver mine, where there are also a capstan and shears, bobs, horse whim, &c. Several thousand tons of stuff have been removed, and floors made to prepare the tim ore for stamping; we have built a stamping mill of six heads, with another in progress and nearly completed, of the same size, with the necessary dressing floors, apparatus, houses, &c., near which a complete calciner is built, with arsenic receivers, now in active operation. The stamps are built conveniently for the water pumped out of the mines to run over the wheels, and to guard against scarcity; several large tanks have been made, to eatch the superfluous water during heavy showers of rain, which are prevalent in this part of the country. Other things, of minor importance, might be named; but'! assure you, that nething has been done which has not been found indispensable to working the mines, even on a moderate scale. In clearing the engine-shad on the

of core. The vein acts, no doubt, as a facet or the time, part of the lode, which is impreving in depth, and will, I think, continue to do so whilst the former is found to accompany it. Tungsted of fron, copper pyrice, and much a madic, are entermixed with the lode in the upper levels; but in the bottom of which is in the loft of the lode, and the lode of the lode in the importance of the lode in this is a manife, are not received with the lode in the upper levels; but in the bottom of a found was steped during the last working, and more of the lode in this is a found to a long the lode in the lode of lode of the lode in the lode of lode

of calcining about six tons of tin, and have a small quantity of silver, which shall be prepared for the market with every possible despatch.—Journ Parson of cashing about six tons or tin, and have a small quantity of saver, which shall be prepared for the market with every possible despatch—John Pinners.

In the course of the proceedings, a question was put by Mr. Jamea, as to the constitution of the company, and whether it was the same as in the Callington, and other mines?—In reply to which, we understood the Chairman to state, that the rules were the same in effect, and that they might be inspected by any shareholder, or a copy should be furnished; but it was not considered worth while to incur the cost of printing, which would be 102, or thereabouts.—We beg to differ with the chairman, for after the scenes of late, in which he has been somewhat conspicuous, we think the rules or regulations of the company cannot be too well known. It is only right to state, that the chairman, on the part of the directors, expressed their utmost readiness to print the rule; should such be the wish of the proprietors. No expression of a desire on their part being manifested, the matter dropped. The report and accounts having been adopted, and ordered to be entered on the minutes, and a vote of thanks passed to the chairman, the meeting adjourned.

We were glad to find that the proceedings commenced at the appointed hour, and which course will, we understand, be strictly adhered to in the case of all other companies, whose affairs are conducted at the office.

and which course will, we understand, be strictly adhered to in the case of all other companies, whose affairs are conducted at the office.

EAST TAMAR CONSOLIDATED MINING COMPANY.—A special general meeting of the sharcholders was held at the offices of the company. Old Broad-street, on Thursday, the 4th inst., pursuant to notice: present F. J. VANZELLER, Eq. (chairman), and sharcholders, in person and by proxy, representing \$436 shares. A circular, convening the meeting, was read, which contained copies of the resolutions intended to be proposed, and stating, "That the grants to the company (three in number) from the Earl of Mount Edgeumbe, comprising a distance of 1290 to 1300 fins., and the present operations of the company being confined to the north and middle portions thereof, and the southern portion holding out great inducement for extending the operations thereto, and for which a considerable capital would be required." The following resolutions were proposed and unanimously adopted:—That instead of such capital being raised by calls upon the shares in the present company, or by applying the profits of the company to that purpose, a new company be formed for working that portion of the company is sets, which is bounded on the north by a road leading from Beeralston to Ware Quay and Holes Holl, and extending to the river Tamar, either alone, or in conjunction with such other ground southward as the directors may be able, and think advisable, to annex to it.—That the new company be called "the South Tamar United Mining Company," and be divided into the same number of shares, and be subject to the same rules and regulations as the present company.—That the shareholders in the present company shall be entitled to a number in the said South Tamar United Mining Company, or in that portion of the present holding of the East Tamar Consolidated Mining Company, or in that portion of the present holding of the East Tamar Consolidated Mining Company, or in that portion of the present holding of the East Tamar Cons

is to be coded to the sand South Tamar United Mining Company. That the directors of the East Tamar Consolidated Mining Company to fully empowered to make such surrender of the existing grant, and to take such steps for obtaining such new or other grants, as they may think necessary for carrying the foregoing resolutions into effect.

EAST WHEAL SETOR MINING COMPANY.—At a meeting of adventurers, held June 2, at Mr. Phillips's, Church Town, Illogan, it was unanimously resolved,—That the accounts examine be allowed, and that a call of IL per slane be made, and collected immediately, for the purpose of paying the costs for the next two months, when there will be another meeting of the shareholders.—That if the defaalters do not pay their arrears of calls, within a fortinglat from this 4 ite, the purser is requested to proceed against them, to recover the amount.—That an engine of 20-inch cylinder be immediately erected on the western shift of the mins. The accounts were as follows:—To calls 160: II. 26. di.; owes old, leading the control of the control of the mins. The accounts were as follows:—To call sold. II. 26. di.; owes old, as a control of the control of

ahare register book be kept at Torpoint, and that all transfers be sent to the secretary, who will be entitled to receive 1s, with each transfer, if for less than five shares; for five shares and upwards, 2s. 6d.—That the sexectary be authorised to get copies of these resolutions, with the report of the impecting captain, printed and forwarded to each shareholder.—The following report from Capt. James Chynoweth was read to the meeting:—"I beg to lay before you a report of work done since your last meeting.—"I beg to lay before you a report of work done since your last meeting, on the 8th April. From that date to the 80th, the men were employed in making additional leats from the river, in building a wall against the leat by the side of the road, and in getting the engine in readines to work; on the 30th, the wheel was set to work in good erder; on the 2d of May, the shaft was set to sink by six men, at 5th perfin., for 5 hms. or the month, since which they have sunk 4 hms.—making 9 fms. from the sarface. The ground through which we are sinking, and the neighbourhood in which the set is situated. I think myself justified in saying, that the mine holdsout the meet encouraging expectations, and that we shall see something good at the 20 fm. level. There are seven lodes passing through the set, of which two are to the west, and four to the east of the mine holdsout the road of september."

I think it advisable not to do anything on these lades before the sext meeting, which is intended to be on the mine. The wasting costs will be about 36, per month for the maxt three menths, and the freechants' hills will be very little until we cut the lade, which I hope will be done at the 20 fm. level, by the and of September." of September."

Without Rose Cossous Minimo Company.—At a meeting of adventucers duly convened and assembled on the mine, on the 28th May last, it was re-

solved.—That the accounts presented and examined, showing a balance of 2564. 13s. 4d. to be due to the purser, be allowed.—That a call of 2l. per share be made and collected immediately.—That the purser be authorised to open an account with Mesers. Willyams, Hodge, and Co., bankers, Truro, in the name of this mine, and to draw what sums may be required from time to time; the balance not to exceed 500l. at a time.—That. Dr. Barham, Mr. Spry, Mr. E. Michell, Mr. W. H. Vice, and Mr. J. Baynard, be a committee to casint the after in carrying out the operations of the mine; such committee to continue six months.—That the purser's salary be 4l. 4s. per month, to commence from the 1st of the present month.

WHEAL SEXON MUNICA COMPANY.—A meeting of adventurers was held at

from the 1st of the present month.

Wheal Seron Mining Company.—A meeting of adventurers was held at the account-house on the mine, or Tuesday, the 9th inst. The accounts having been examined, it was resolved,—That the same be allowed, there appearing a balance of 7611. 10s. 4d. due from the purser; and further, that a dividend of 151, per 99th share be declared, and the same paid by the purser. A letter from Mr. Seton, to Measrs. Bull and Tilley, dated 5th inst., respecting a new set of the mine, having been read, it was resolved,—That the purser be requested to convey to Mr. Seton, the thanks of she adventurers, for his kindness in complying with their request.—It was also resolved, that Capt. Stephen Lean be appointed an agent of the mine, at the salary of 10f. per month, from 1st July proximo. The meeting adjourned until Tuesday, the 11th August.

Wheal Seron Account

Amount of costs for March.

Wheal Seron Account

Amount of costs for March.

**Anount of costs for Marc

MINE ACCIDENTS.

Ting Tang Mine.—S. Evans was killed here, by having fastened himself to a plank in the shaft while at work; and forgetting to unlash the rope, when he get in the kibble to be raised, he was drawn out, and precipitated about 8 fms.:

or in the kibble to be raised, he was drawn out, and precipitated about 8 fms.: e died in four hours after.

Treasons.—J. Russell was killed here, by falling 20 fms. down the shaft.

Thornley Colliery.—J. Wilson, aged 14, was killed while working here.

Sherburn East Fit.—J. Minto was crushed to death by the cage falling on him.

Elemore Fit. Easington-lane.—W. Tiplady was killed by a fall of stone.

Buglan Colliery, wear Neath.—J. Jones was killed by a fall of earth.

Dunkirk Colliery, West Bromwich.—J. Prince was killed by a fall of coal.

Milchill Quarry, Tubistock.—A miner, named Brooks, was killed by a blast.

Wheat Treasurus.—J. Russell was killed while drawing up some materials.

Pentridge, near Affreton.—J. Briow was killed by a rail of mine stuff

Hindley Geer.—A. Ratcliff was killed in Mesars. Scowcroft and Co.'s colliery.

Ashton.—T. Bow ker was killed by a fall of roof in Mr. Bredbury' colliery.

RISCA COLLERY EXPLOSION.—The following liberal subscriptions, amounting to 65l. 7s. 6d., have been forwarded to the committee by the gentleman who heads the list:—Francis Carleton, Esq., 20l.; Sir John Pirie, 5l.; Sir John Campbell, 5l.; Captain R. Bourne, R.N., 5l.; Mesrs, J. Hartley, 5l.; B. McGregor Willcox, 5l.; A. Anderson, 5l.; P. de Zulueta, 5l.; R. J. Bagshaw, 5l.; J. Allen, 5l.; three ladies, 7s. 6d.

CADOXTON, NEAR NEATH.—The colliers at Aberthey Colliery, the property of the Noath Abbey Coal Company, struck last week for an advance of 2s. per week. We understand that the company have given the increase, and the men have returned to their work.—Merthyr Guardian.

men have returned to their work.—Merthyr Guardian.

Seaton Delayal Colliery.—The colliery at Seaten Delayace remarkable for the vitality of its voluntaryism. Within one year three places of worship have been erected, chiefly by the contributions of working men. The Wesleyan chapel, a ment structure, affords sittings for 300 persons; and a bazaar, for the benefit of the chapel fund, was last week got up, for the most part, by the wives and men employed on the colliery, and is causing a sensation, not merely at Seaton Delayal, but for many miles round.

NEWLYN MINING INTELLAGENCE.—A meeting of the adventurers in Trew Mine was held at the New Inn, on Monday, when a large party assembled. The prospects of this mine are considered very oncouraging, and a steam-engine will be set to work in about three weeks' time at Wheal Arthur, in the parish of St. Allen.—East Wheal Rose is about to add two new engines to those already at work, and preparations are also being made for one at Wheal Metha. Altogether, the mining prospects in this parish are cheering, and the operations are carried on with much life and spirit.—Curnwall Gazette.

MANUFACTURERS' MUTUAL PROTECTION SOCIETY.—On former occasions have we, as recorders of the progress of scientific pursuits, noticed, in the Mining Journal, the attempted formation of societies for the protection of inventors and patentees; two such societies in England, and one in America, having endeavoured to be established during the course of the last three or four years—all of which, from some undefinable cause, have been allowed to fall to the ground. We have now before us a prospectus for the formation of a society for somewhat similar purposes, as regards the merchant and manufacturer—viz.: for protecting them from the fraudulent imitation of their names, trade marks, and manufactures. This prospectus justly observes:—"It is well known to every merchant and manufacturer, that this description of piracy now prevails to an enormous extent. No somer does any kind of merchandise or manufacture acquire any reputation in the trade, or with the public generally, than the name of the manufacturer, or his trade mark, is at once counterfeited; and by this means his trade is seriously injured, and the character of his manufacture impaired, if not destroyed, by the sale under his name or mark of a spurious and inferior article." This piracy is more extensively carried on, and is more particularly injurious in foreign markets, the East and West Indies, &c., where it is well known great quantities of merchandise, which pass for British manufacture; is an inferior continental imitation. Several recent cases in the law courts of both France and America, fully establish the right of the British merchant or manufacture to protect his trade at home or abroad from this kind of higary; and it is proposed, that this society be supported by a small annual subscription from each member, who will then, without any farther expense, have the privilege of consulting the solicitors at all times; personally or by letter, and obtaining, free of charge, opinions as to their rights, in respect of any fraudulent imitations, and will be obtaining, free of charge, opinions as to their rights, in respect of any fraudulent imitations, and will be entitled to prosecute any person who may counterfeit his marks or name, either in the United Kingdom, the British dominions, any part of the continent, or the United States, at the expense of the society. With a highly respectable list of trustees and committee of management, we trust to see the full development of this society, and, as we observe that abstracts of all patents are to be forwarded to the subscribers, we trust the rules agreed upon will extend to the admission of inventors and patentees for their like protection, who, combined with the great body of manufacturers and merchants, would form a society at once important and powerful, in supporting the just rights of its members.

Socurer or Arra—The annual meeting for the distribution of finces was

Society of Arts.—The annual meeting for the distribution of phises was held at the Society's house, John-street, Adelphi, yesterday, when much disappointment was caused by the absence of Prince Albert, from an injury received the previous day. Sir Edward Codrington presided, and Ibrahim Pacha was present. The secretary having read the report, and the general business of the seciety for the previous year, the distribution of the prizes followed:—Mr. Ricardo, of Brighton, he registering the speed of railway trains; Mr. T. M. de Folly, of Harrington-street, Gray is line, for his geometrical plane-forte; and Mr. Crampton for his improvements in the lecomotive engine (which improvements we have recorded in the Mining Journal). In this fine arts, the prince were bestowed on F. Summerloy, Eug., of Old Bond-street; Messrs. Minten and Co., of Stoke-upon-Treat, for models of carthenware tea service; Dr. Ritterboant, for preventing incrustation in boilers; and B. Albano, Eug., and G. Warrener, Esq., in manufactures, were awarded two of the principal prizes.—A vote of thanks was passed to the chairman, and the meeting separated.

Current Prices of Stocks, Shares, & Metals.

Bank Stock, 7 per Cent., 2004
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3 per Cent. Annities, 95 7
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India Stock, 10 per Cent., 3
3 per Cent. Consols or Acc., 25 5 4
Exchequer Bills, 1000/, 16 pm. Belcian Houds, 44 per Cents, Dutch, 24 per Cents, 59; Brazilin, 5 per Cents, 894 Chilhan, 3 per Cents, 984 Mexican, 6 per Cents, 984 Mexican, 6 per Cents, 284 Disto Deferred, 154 Portuguisse, 4 per Cents, 47 Russian, 5 per Cents, 47 Russian, 5 per Cents, 1094

RAILWAYS.—The determination shown by so many companies to persevere in their applications, is causing much uneasiness among capitalists; and the want of confidence, a distinguished feature of the present money market, may be attributed to it. In the manufacturing districts, where railway engagements are heaviest, the anxiety is proportionally increased, from the fear, that a large portion of capital will be drawn from the usual legitimate channels, for the purpose of carrying out railway undertakings at the expense of the usual trades, The result of the deliberations of the committee on the London and York Company, united with the Direct Northern, having been, the obtaining their bill, quite a sensation was caused on Change, and the fear of calls immediately caused a fall in the script. Eastern Counties shares also felt the effects, and receded a fittle.

purpose of carrying out railway undertakings at the expense or use manustraces. The result of the deliberations of the committee on the London and York. Company, united with the Direct Northern, having been, the obtaining their highly of the control of the committee of the Privy Council, respecting the treak of gauge, appears to have given, as stated by a contemporary, "the most unqualitied satisfaction to the merchants, manufacturers, and tradesmen, of the town and neighbourhood of Birmingham," and wellit may have done so, inasmuch as they have been on the tensie hooks of aspense, bet the libraingham and Gloucester Line should have been recommended to be altered, to the town and deligibourhood of Birmingham," and wellit may have done so, inasmuch as they have been on the tensie hooks of aspense, bet the libraingham and Gloucester Line should have been recommended to be altered, to the town and control of the committee, although it may please the good folks of Birmingham, will, if carried into effect, increase to a serious sexten the will that is was mean to curve and we refered, increase to a serious sexten the world that is was mean to curve and we refered, increase to a serious sexten the world that is was mean to curve and we refered, increase to a serious sexten the world that is was mean to curve and we refered, increase to a serious sexten the world that is was mean to curve and we refered, increase to a serious sexten the world and York Bill barrying passed the committee, barrised, and the world of the town of the committee, and the world of the town of the committee, barrised and the committee, barrised and the committee of the town of the committee of

Dess, 41 for, 51 against.

Messes, Lamonn's Sales.—Torsday.—Caledonian (151. pd.), 111.5s.; Vale of Noath (21.), 11.6s.; London and Croydon.—thirds (91.), 91.17s.; Publin and Galway (41.), 21. 10s.; Buckinghamshire (21. 2s.), 11. 11s.; Shrewsbury and Birmingham (21. 10s.), 22. 11s.; London and Manchester—Rastrick's (41. 5s.), 34. 15s.; Leicester, Tamworth, Coventry, Birmingham, and Trent Valley (21. 2s.), 11. 6s.; North Kent (21. 10s.), 14.6s.; Galedonian Extension (21. 10s.), 11. 6s. 6d.; Geole and Doncaster (24. 2s.), 14. 5s. 6d.; Tring, Readline, and Basingstoke (51. 3s.), 11. 15s.; NorthAsinpton, Bodford, and Cambridge (24. 2s.), 14. 5s.

(24. 2s.), 14. 5s.
Farnar, — Northumpton, Bury, and Cheitenham (24.), 14. 1s. 6d.; Buchinghamshire (24. 2s.), 14. 16s. 6d.; Welsir Milliand (24. 10s.), 14. 3s.; Leeds and Thirak (10f.), 4f. 10s.; London and York (2f. 10s.), 2f. 17s. 6d.; York and Lancaster (2f. 12s. 6d.), 1f. 12s. 6d.; Northanipton, Bedford, and Cambridge (2f. 2s.), 1f. 5s. 6d.; Farness and Windermer (2f. 2s.), 1f. 1s.; Vale of Neath (2f.), 1f. 4s. 6d.; South Midland (2f. 2s.), 1f. 5s. 6d.; Eberton, Newark, and Sheffield (2f. 12s. 6d.), 13s.; London and Manchester — Rastrick's (5f. 5s.), 3f. 12s.

HULL, TRUESDAY.—The share trade is essentially one of contrasts, of which the past week has furnished further illustration. Shares of all kinds are now ranging at much lower rates—sellers considerably preponderating. This is chiefly to be ascribed to the uncertainty langing over political events; but it, nevertheless, shows the extreme sensi-tiveness of the share market to external influences. North Staffordshires and West Riding Unions are the only new lines that maintain a removable consideration. fered a heavy per centage of decline since we last wrote, its preamble, and fallen 6s. per share, on 21. 10s. paid.

COAL MARKET, LONDON.

COAL MARRET, LONDON.

PRICE OF COALS FER TON AT THE CLOSE OF THE MARKET.

MONDAY.— Chester Main 13—Davison's West Hartley 15—Hastings' Hartley 14 6—Holywell Main 14 9—Original Tanffeld 12 6—Oct** Redheugh 13—Tanffeld Moor 15—Townley 13 6—Eden Main 14—Leasingthorne 12 6—Sidney ** Hartley 14 6—Wall's Entitled 13 6—Killingworth 12 6—Braddyll's Hetton 14 6 to 14 9—East Hetton 13 3—Hetton 15—Lambton 14 9—Stewart's 15—Relice 14 6—Gordon 13 3—South Durhan 13 6.—Ships at market, 48; sold, 33; unsold, 16.

WEDNESDAY.—Chester Main 13—Davison's West Hartley 14 6—Hastings' Hartley 14 6—Tanffeld Sloor 15—West Wyslan 14—Eden Main 14—Coupen Hartley 14 6—Sidney's Hartley 14 6—Wall's End Hilds 13 6—Braddyll's Hetton 14 6 to 14 9—East Hetton 13 7—Kelloc 14 6 to 14 9—Gordon 13—South Durham 13 6.—Ship at market 26; sold, 23; unsold, 3.

EEDDAY.—Cary's Hartley 14 6—Chester Main 13—Davison's West Hartley 14 6.

at market zo; sold, Z2; unsold, 3.

FRIDAY.—Carr's Hartley 14 6—Chester Main 13—Davison's West Hartley 14 6—Hasting: Hartley 14 6—Nolson's West Hartley 14 3—Original Tanfield Moor 12 6—Taylor's West Hartley 13 9—Tanfield Moor 15—Wylam Moor 14—Wall's End Hillds 136—Eden Main 14 3—Hetton 15 3—Lambton 14 9—Shotton 14 6—Stewart's 15 3—Gordon 13—Stenoy's Hartley 14 6.—Ships at market, 43.

RAILWAY TRAFFIC.—From our official returns, it appears that the amount of traffic for the last week, on nearly 1800 miles of railway, was 152,531L, the accounted for:—88,412L for the conveyance of passengers only, 35,304L for the carriage of goods, and a remainder of 28,815L for passengers and goods togethe not respectively apportioned; being an increase over the corresponding week of last year of 28,461L.—Railway Chronicle of this day.

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	Ne did of correspondents in general. PRICES OF METALS.	W)
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		वर्षा वर्षा
COFFER SECACY. — I'M in fair demand for ea	rrespondent.) to domand for Weish and Staffordshire. In s since last Mining Journal, but holders are est. tport; Straits and Banca firm.	Cul
TIN PLATES in limited demand at present LEAD steady in price, but not much doing [Communicated by Messre. Whitcom	and Spelter and Zinc very quiet.	Ber
Communicated by Messrs. Whiteon English from continues firm, but transactle from is not quite so good as last week, althou For assorted numbers—1, 2, and 3—we quot spelter is reported at 18l. 5s.—In other meta	ms have been rather limited. Scotch pig- nigh there is no material alteration for No. I. to the price 61s. 6d.—A sale of 100 tens of is no alteration.	Cob
About 100 tone of spelter have been a Clar	respondent.]	C.

on 100 tons of spelter have been sold for arrival, at 161.5s, per ton. On the spot is nothing doing, with the exception of a sale of about 80 tons of British, at 201. per English iron has undergune no change during last week. Sooich high has been in elemand at 67s. 6d, per ton for missel ambers, delvered at Glasgow. Swedish iron field continue dull of sale. English copper and tin remain underest; Straits and or tin are in fair desmand.

GLASGOW PIG-IRON TRADE. GLASGOW FIG-IRON TRADE.

GLASGOW FIG-IRON TRADE.

Since the continuation of the quickness noticed hist week, and the since have been at slightly easier terms. We quote 65s, for No. 3; 67s, to 68s, for 60 Nos; 68s, to 70s, to 68s, for no for the cash, free on beard. The shipments during the month any were larger than ever known in any one month; and as they are fift continued bated, the decrease of stock will tend to give a firmness to the market.—Not. Advan.

THAMES TUNNEL COMPANY. r of passengers who passed through the Tunnel in the was 27,306; amount of money, £113 los. 60.

EXPORTATION or run PRECIOUS METALS.—The following are the officer, the superity of gold and allver from the part of London for the heat week.

Sliver coin to China.

1.367 ounces.

Sliver hars to Hamburgh.

1.260 n

manga

SPEED AND POWER.—A new and powerful locomotive was tried on the heffield, Ashton-under-Lyne, and Manchester Railway, on Friday last. The engine, which has been named the Gollak, ran from the Bank-top The engine, which has been named the Goliah, ran from the Bank-top station, at Manchester, to the Shoffield terminus, at the rate of upwards of 20 miles an hour with the greatest case. It was accompanied by a large number of gentlemen, amongst whom were Mr. R. Peacuck, superintendent of the locomotive department on the above lin: of railway; Mr. John Ramsbottom, the superintendent of the locomotive department on the Manchester and Birmingham Line; and Mr. Charles Beyer, manager at the works of Messrs. Sharp and Brothers, Manchester, who have jointly assisted in the planning and construction of this not inappropriately named Goliah engine, and who had the gratification of seeing their investigations and experiments crowned with success. Superimentent Grettan, Mr. Gibson, Mr. Dobson, and other gentlemen, also accompanied the engine along the line. This ponderous machine is the largest crank-axle locomotive engine ever built. The cylinders are 18 in. diameter, with 2 ft. stroke, mounted on six wheels of 4 ft. 6 in. diameter, all coupled, so that they will not be liable to slip in wet weather, or with a heavy load, as is often the case with those constructed upon the present principle. There is an evaporating power of boiler. The engine is calculated to take a load of upwards of 1000 tons, on a level, at the rate of 20 miles an hour. It has given every satisfaction to the company, who have nine more engines of a similar description in progress of building, at the works of Messra. Sharp and Brothers. It is intended to attach the engine to the heavy trains of Sunday-school scholars passing along the line during this week.

Some large quantities of gold recently imported from Russia add to the stock of bullion in the country. These importations come at the most irregular periods, and, from all that we can learn on the subject, it seems absolutely impossible to settle the rate of productiveness in the Russian mines. In all probability, the quantity sent to this country bears a very near relation to the quantity produced, since, into whatever country gold may be sent in the first natance, it ultimately finds its way to England, on account of our adoption of gold standard of currency. The same reason, which induces our merchants of export silver into countries which use that metal as their standard, and which consequently set a higher value upon it, induces foreigners to send their gold lere. The exchanges for some time past have been in our favour, and this nature of the produce of the Russian mines is the result.

COPPER ORES

Mines. Tons.	Price.	Mines. Tons, Price.
Carn Brea 91	.£4 16 0	Trenow Consols 31 £4 3 0
ditto 80	5 17 6	ditto 30 6 8 0
ditto: 75	. 6 14 6	ditto 10 3 6 6
ditto 71	. 7 2 6	Wh. Virgin 84 5 10 6
ditto 68	. 6 3 0	ditto 50 4 7 0
ditto 58	. 3 11 0	citto 10 1 18 0
ditto 53 ···.	. 3 12 0	West Wh. Jewel. 64 2 18 0
ditto 22	2 0 6	ditto 6 6 0
Wh. Prosper 95	4 11 6	ditto 38 2 16 0
ditto 65		Wh. Trewavas 62 4 8 0
ditto 60	. 2.12 0	ditto 59 7 13 0
disto 13	. 1 15 0	Wh. Busy 58 2 9 6
United Hills 73	6 5 6	ditto 24 2 14 0
ditto 69	3 12 0	Wh. Brewer 48 2 18 6
ditto 63	3 13 0	ditto 32 4 2 0
Wb. Sparrow 18	3 1 0	Wh. Kayle 25 3 17 6
Par Consols 82	4 1 0	ditto 18 7 10 0
ditto 74	6 18 6	Wh. Rodney 30 4 4 6
ditto 64	7 0 6	ditto 11 2 15 6
Wh. Providence 85	3 10 6	Herland 10 4 6 6
ditto 46	6 15 6	Thomas's Ore 10 0 5 0
ditto 34		Wh. Treasury 9 3 9 0
ditto 28	1 13 0	Great Polgooth 7 10 17 6
Trenow Consols 68	6 1 6	Wh. Brook 4 6 6 6
ditto 53	7 12 6	Model & self-business mark Asset, the w

518 £2776 10 4 Wh. Busy 82 255 1227 18 0 Wh. Brower 80 255 1227 18 0 Wh. Brower 80 255 1227 18 0 Wh. Kayle. 43 Wh. Rodney 41 290 1275 43 0 Herland 10 193 913 9 Thomas's 0re 10 192 177 2 Wh. Tronsury 9 144 700 12 0 Wh. Tronsury 7 144 566 12 0 Wh. Brook 4 121 794 3 208 7 271 12 231 17 157 5 43 5 2 10 31 1 76 2 25 6

Average standard, 1007.5s.—Average produce, 74.—Average price per ton, 51. 0s. 0d.— amily of ore, 2294 ions.—Quantity of fine coppey, 176 ions 30 ewis.—Amount of money, 3847. 19s. 6d.—Average standard of fast sale, 1047. 16s. 0d.—Average produce ditto, 72

COMPANIES BY WHOM THE ORES WERE PURCHASED. ERE PURCHASEL,
Tons. Amount.
209 21200 8 6
158 669 9 0
542 2780 13 0
3224 1932 6 3
3684 1635 2 3
3684 7 224 7 0 Mines Royal

Bigelish Copper
Vivian and Sois
Freeman and Co.
Greinfell and Sois. Total tons 2994

£11,384 19 6 Copper oves for sais on Thursday next, at Andrew's Hotel, Redruth.—Mines and Par is.—Devon Great Consols, Wheal Maria and Whield Fanny, 1731.—West Caraden 412-wey Cansols 325.—Marke Valley 182-28t. Agnes Cansols 192.—Holmbush 109.—Bedior afted Mines 90.—Wh. Gorland 30.—North Wh. Basset 17.—South St. George 7.—2015. Copper ores for sale on Thursday week, at Farquharson's Hotel, Truro.—Mines and Par-a.—United Mines 1110—Tresavens 435—Far Consols 311—South Caradon 300—Tre-dit Consols 167—Trethellan 116—Wheal Sisters 106—Penstruthal 27—West Trethellan —North Downs 20.—Total, 2618 tons.

COPPER ORES vansea, June 10, 1846.

Mines	Tons. Pr	ad Stand	Police	Mission	Toma 1	Prod. Star	4 0	mine.
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THE R. P. LEWIS CO., LANSING, MICH.	Other Aug 19	00 P 50 F	LA ROS	South Melton.	. 2	16 877		5 6
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£40.452 6e 04 Total tems, 3464;-T

COMPANIES BY WHOM THE ORES WERE PURCHASED.

£40,453 6 0

DOLKINGHORNE'S PATENT METHOD OF TREATING

Messurs. POLKINGHORNE & CO. beg to sequaint ADVENTURERS, and OTHERS interested, in TIN MINES, that they have just obtained HER MAJESTY LETTERS PATENT for the SOLE USL of a COMPOUND SOLUTION, effectually to CLEANSE TIN ORE from all extraneous mentals—thereby increasing its value from 25 to 24 per ton. Messurs. P. and Co. are NOW READY to SUPPLY the article from their manufactory. COPPERHOUSE, HAYLE, CORN WALL.

in casks of 10 gallom each, which quantity is sufficient for a ton of ore.—Frigo 10s. per cask, and license 5s. per ton of ore.—N.B. Every information can be obtained by applying at the patentee's offices, 12, Clement's-lane, London.—April 4, 1846.

TO ARTISTS AND AMATEURS.—NEW WATER COLOURS, PREPARED WITH WAX, MANUFACTURED BY MESSIG. REEVES & SONS, No. 113, CHEAPSIDE, LONDON, the composition of which is pure Virgin Wax, chemically prepared, thereby entirely supersoding the use of gun, and by which new method their permanency, chilliance, and easy-flowing qualities, are in a remarkable degree preserved. They combine the depth of oil, with the transparency of water; and the numerous estimemolals Bressra, Reeves have received (from the most entiment artists) are a sure guarantee of their augerior mattre. The testimonials are printed, and Massra, Reeves will feel happy to forward them (postage free) to any party wishing for the same, by applying at their Artist's Colong Manufactory, 113, Cheapside, Loudon.

NOTICES TO CORRESPONDENTS.

IMPROVEMENTS IN LOCOMOTIVE ENGINES.—We shall next week give a description, with engravings, of Petiti's New Engine. BIDDLE'S PATENT EGERAL EMPIRS with also be described and illustrated in next Journal.

With an early Number, we shall present to our Subscribers, on an Extra Stayed Sheet,
A LITHOGRAPHED MAP OF THE CARADON MINING DISTRICT.

THE MINING JOURNAL And Atmospheric Railway Sagette.

LONDON, JUNE 13, 1846.

Among the several communications which the remarks made in the Journal, on subject of mine management, whether in Cornwall or London, which we have received, one or two more particularly direct to the supply of materials, and the suggestions of a valued correspondent appears to us so well applied, that we at once adopt them, doubting not for a moment but that their importance will be at once admitted, and the truth, we fear, too readily acknowledged. The monthly cost-sheets sent up to London, to a committee of management, who too oft hardly know the cost of a pound of candles or a cwt. of powder, a load of timber or a coil of safety fuse, is, in too many cases, an absolute farce. That the labour account is properly rendered we have no doubt, and that every care is taken as to the correctness of the accounts—while we have no reason to apprehend, for a moment, that any intentional errors arise—to imagine such, would be to cast a stigma on mine agents and pursers, than whom we believe, speaking generally, there does not exist a more honest or independent class. The reference we would make, adopting the views entertained by our correspondent, who is well informed as a practical miner, is rather to the materials supplied the mine—not only with regard to the cost, but the computed quantities and weight. Timber is one of those items, which, while it is one of the most expensive in certain mines, is, we have reason to believe, one of the most neglected; and we would have all agents, or persons on whom devolves the care of the stores or materials, to be able to affirm, in case of need, to the correctness of the invoices sent in. There are many instances where the invoice does not accompany the materials—there are others where they are required at the moment, and neglect of examination is the result. We could narrate several cases affecting other materials—while it will be our immediate province, on our proposed visit to Cornwall and Devon, to ascertain, more especially the general system observed, and, without favour or Among the several communications which the remarks made in

We have to direct the attention of that section of our readers, who are associated with railways, to the important judgment pronounced yesterday in the cause Walstan v. Sportiswoods, whereby it will be seen, that in all cases where the professed object of any proposed company, be not carried out; the provisional committee are alone liable for the expenses which may have been incurred; and that the party, to whom shares may have been allotted, is entitled to recover the entire amount of deposit paid by him, not even deducting the trifling per centage for provisional registration. This would appear hard on the provisional committee man, who, in most instances, has too readily lent himself to the designing prospectus, whether lawyers' or engineers'; but we doubt not in all cases, when it is demonstrated that the affairs of the company have been fairly and honestly conducted, and that there have been justifiable grounds, on which the committee proceeded, the shareholders will, in all cases, honestly come forward and pay their fair quota, having had their shares allotted them, with, in most instances, the opportunity of realising a handsome premium. The present we may consider an isolated case, there being only 4000 shares out of 80,000 paid upon, and yet the provisional committee thought right to charge the applicants for shares, who had paid their deposits, with the expenses incurred. The subject will, doubtless, attract general attention, and lead to many changes and movements, not heretofore contemplated.

It is with sincere gratification that we advert to the mining reports, It is with sincere gratification that we advert to the mining reports, which appear in our columns, showing an improvement in several of the mines, which, we hope, will be lasting; and that the western part of the county of Cornwall, which appeared to be in the descendant, judging from the vast riches in the east, as exemplified in the returns of Wheal Maria, will still uphold the high character it has ever maintained. We observe that at Wheal Seton the lode is worth 250% per fathom, which, assuming the ore to be 8% per ton, would give 30 tons per fathom—it being described as 12 feet big at the 70 fathom level. Such discoveries as the present are highly encouraging to adventurers in mines, and, we trust, will continue to give confidence to those who have embarked capital, while it may hold out inducement to others.

A subject which does not appear to have met with that attention which it deserves, and one which we anticipate will force itself on the miner and mine adventurer ere many months clapse, is the construction of railways in Cornwall, or the adjacent districts, as such must necessarily very much advance the cost of labour, and thus have a serious effect on the mining interests. We need hardly say, that any measure calculated to increase the wages of the miner or labourer, who is now compelled to mate his strength, and bary himself away from the busy hum of men, in mining pursuits, delving and searching the bowels of the earth for mineral riches, deprived of the wholesome air, or the sun's rays, any measure which may have the effect of increasing his hard-earned pittance of 2s. a day, or 45s. to 50s. a mouth, is lailed by us with gladness; and most happy should we feel, if that the mines from their productiveness, or ore from its price, would enable the advantirers to advance the pay of those who labour so carnestly, and whose period of existence is shortened by their contributions to the wealth of others; but we must not lose sight of the results which we cannot but apprehend will attend the railway movement without great care be observed in the several works which we may contemplate, so that a final loss does not attend a present gain.

We can very well understand that, in the construction of a rail-

way—no matter the locally—a demand for labour is created; and for driving tunnels, or indeed my labour, where the pick or shovel can be employed, some are better suited than the Cornish miner. The rate of wags we will assume to range from 4s. to 5s. per day; here, then, we have at once an increase on the rate paid to the miner of apwards of 100 per cent. The result may well be foreseen; employment will be afforded for the next two or three years, and the operative miner will gladly forsake his toilsome labour to breathe fresh air, and, by exercise, invigorate his strength—while the increased pay will enable him to indulge in comparative luxuries, and afford comforts to his family. But let us see what is the result; the miner's occupation becomes that of the "navies." A want of miners is created, wages advance, and many mines now working will, we miner's occupation becomes that of the "navies." A want of miner is created, wages advance, and many mines now working will, we fear, be suspended from the increased cost attendant on their operations. We trust that our prognostications will not be borne out; and, perhaps, the best evidence we can adduce is, that a gentleman, who, we believe, is not only the largest mine proprietor in Cornwall, but who has endeared himself to all as the miner's friend, prowall, but who has endeared himself to all as the miner's friend, prosides as chairman of the Cornwall Railway or Coast Line—we refer to Mr. J. T. Tarpray—and we trust, therefore, that the question we have raised, may not be so momentous as we apprehend. We cannot, however, conceal from ourselves the fact, that the value of labour has been constructed; and without a surplusage of labour, beyond the actual wants of the district, we can very well imagine such must be the effect in the present instance. Having said this much, we have only to recommend to managers and those employed, that they should not too hastily adopt railways in preference to mines, although the former may hold out inducement by increased pay—railways may occupy some two or three years: mines are for centuries.

In another column will be found a letter from Mr. WALLIS, on another column will be found a letter from Mr. WALLIS, on subject of the accident on the Brandling Junction Railway, in reply to a communication which appeared in the Journal of the 30th ult. In defence of the course pursued by the directors—it appearing from the Report of the Committee of Enquiry, which was therein quoted, that the cause of the directors or engineer having adopted the curved line, was in consequence of obstacles thrown in the way by our correspondent. We are well pleased that this explanation, or rather denial, on the part of Mr. Wallis, should have taken place, as it affords another instance of the incapacity of the constituted author-it's, on whom devolves inquiry in cases of accidents, to arrive at it'es, on whom devolves inquiry in cases of accidents, to arrive at a fair and proper conclusion, or to enforce such arrangements as may insure security to the public. The letter safficiently speaks for itself, and we trust that Col. Pasler will feel himself called upon to instituts further inquiry than that which attended the first report made by him, and submitted to the Legislature. There is too much jobbing going forward in the laying down of lines, without the slightest care being displayed towards the public safety; and we think these matters cannot be too closely probed or investigated.

Having hailed the formation of the General Mining Company for Ireland, as calculated to assist in the development of the mineral wealth of that country, and give additional and permanent employment to portions of the population, it gives us great pleasure to find, that the directors are devoting themselves to the work with all their enthe directors are devoting themselves to the work with all their energies, and that their perseverance appears likely not to go unrewarded. At the first half-yearly meeting, held on Monday, the 1st inst., in Lower Sackville-street, Dublin, which was numerously attended, and at which Bir James Murray presided, the report gave the utmost satisfaction to all present. It stated, that the directors had obtained the complete registration of the company in February last—and, after mature deliberation, had decided upon following the good example of the Mining Company of Ireland, whose success had reflected such credit on the company, and following out the patriotic recommendations of Sir R. Kans; that owing to the depression of the money market, they had refrained from making a call hitherto—and instead of a 21. 10s. call, as authorised by the original prospectus. the money market, they had refrained from making a call hitnerto—and instead of a 21. 10s. call, as authorised by the original prospectus, they had now decided upon a call of 10s. per share only, which it was hoped would be sufficient to carry on the works during the current year. Since the date of registration, the directors had collected intornation of, and been in trenty for, such mines as were likely to prove profitable; they had taken, at a royalty, the lead mines of East and West Shallee, which were set to work in April last, and the copper mines of Lackamore, now in full operation—a cargo of lead would be sent to market in a mouth or six weeks, and about 20 tons of comper from the Lackamore Mines: two other mines, of very faof copper from the Lackamore Mines; two other mines, of very fa-vourable indications, had been secured at reasonable royalties. The vourable indications, had been secured at reasonable royalties. The report further observed, that it required much time and attention to bring the affairs of the company to such state on only a payment of 2s. 6d. per share—a position which no other company, with such slender means, is recorded to have reached. The Shallee Lead Mines embrace 1000 acres, 14 miles from Limerick, and five from Killaloe; 40 miners are employed, and earning good wages on tribute. The Lackamore Copper Mine is 12 miles from Limerick, embracing a run of an English mile on the course of the lodes; there are about the same number of miners analyzed; and as soon as reachers. bracing a run of an English mile on the course of the lodes; there are about the same number of miners employed; and, as soon as possible, the works will be extended, with every prospect of a successful result. The following motto headed the report:—"Employ the people, and enrich yourselves, by developing the great natural resources of the country." Mr. O'Darscoll, and several gentlemen, addressed the meeting on the highly favourable position of the company; and Dr. Brade enlogised the conduct of Mr. Phillip Jones, who, as a merchant of Dublin, had kept them affort, and sustained their character and credit, at a time when, through the panic that character and credit, at a time when, through the panic that d, they must have been swamped, but for his assistance; he moved a vote of thanks to that gentleman, which was unanimously responded to. The report and accounts were adopted with accla-

moved a vote of thanks to that gentleman, which was unanimously responded to. The report and accounts were adopted with acclamation; and we have no doubt, that the anticipations of the directors, as expressed by the chairman, will be realised—viz.: that while the people were scrambling for miserable half acres of land above ground, there were thousands of acres of metals and minerals lying neglected below it; that the capital invested on railways was very large, while its return was distant and small; and that a more certain and safe investment could be made in mines, now that railways were near them; that improvements had taken place in raising and smelting ores; and that the people, by their ndelity to temperance, evinced that they were able and willing to work, and that they sought to merit the confidence of their employers.

So far the General Mining Company for Ireland has prosperously opened its campaign, with every prospect of increasing success. The Southern and Western Mining Company of Ireland has also, we understand, been proceeding with spirit in the opening out the Gurtavallig Mine; and, as their first general assembly will shortly take place, we hope to be able to congratulate the people of this part of Ireland, and the proprietors, on the results of the progress made in that mine, as well as in obtaining others. The Mining Company of Ireland has been, during the past half year, fully acting up to their motto—"Industry, Economy, and Perseverance." The Knockmahon Mine has yielded during the past quarter considerably more than an average return; and the other concerns working by them have, we understand, produced the usual profitable results. The half-yearly meeting of this company will also be held in about three weeks. Turn which way we will, there are certain indications of the steady progress of mining in Ireland; and when, by the development of the railway system, facilities shall be afforded for the economical carriage of the ores, we hope to see her become, in every sense of the word, a minin

followed up with profit, where skill and judgment are brought to bear with capital, may be inferred (among several others) from the Cosheen Mines, which, in six years after opening by a late company, returned 17,000%. Worth of ores, on a capital of 2500%.—some of the ores from which occasionally averaged nearly 30% per ton.

Since writing the above, we have received a communication from a correspondent, by which we learn, that the ores for sale, in about a month, are those raised during April and May, and which are now in course of dressing—that the shares are bearing a steady premium—and that, for so young a company, they are progressing in a manner which cannot fail to draw the attention of capitalists generally to the resources of Ireland. the resources of Ireland.

IMPROVED PROCESS IN THE REDUCTION OF SILVER ORES.—The enor mous amount of British capital which, during the past 20 years, has been sunk in South America and Mexico, in the attempt to reopen the mines of the precious metals, for which those portions of the New World have been famous for the past three centuries, without producing those profits-ble results which were fully calculated on by the sanguine promoters of the companies, remiers an authentic descriptive notice of the silver mines of the precious metals, for which those portions of the New World have been famous for the past three centuries, without producing those profitable results which were fully calculated on by the sanguine promoters of the companies, remiers an authentic descriptive notice of the silver mines of Mexico particularly interesting. Our readers will recollect that, in the early part of last year, a series of valuable papers appeared in the Mining Journal, from the pen of John Phillips, Esq., the secretary of the Real del Monte Mining Company: these have been collected, and published by P. Richardson, of Cornhill, under the title of a Descriptive Notice of the Silver Mines and Amalgamation Process of Mexico. Mr. Phillips, from his position as secretary to one of the largest companies, and from his having spent some time in Mexico, and made himself acquainted with the various details connected with the mines, is well qualified for the task he has undertaken, and very fairly accomplished. After alluding to the difficulties which arise in the land carriage of heavy goods, from the general mountainous nature of the country, he proceeds to describe the silver mines of Pachuea, Atotonileo el Chico, Real del Monte, Guanaxuato, Zacatecas, Fresnillo, Plateros, El Doctor, Oaxaca, and Bolanos—their system of working, and mode of drainage. The most important portion, however, of the pamphlet, is the account given of the present mode of obtaining the metallic produce of the ores by smalgamation, in which so large a sum is annually expended in the monopolised article of quicksilver, and the description of the results of newly-discovered processes in which mercury is not required, and by which a greater proportion of the silver actually contained in the ores is obtained than by the old method. The new processes (of which there are two) for the reduction of the cres, without the aid of quicksilver, were discovered in Germany by Mr. Ziervogel, and Mr. A. E. Spangenberg has proceeded to Mexico, to try it on the ores of that country—the r

HOPKINS'S SAFETY RAIL FOR RAILWAYS.—We have, during the week been favoured with an inspection of a new description of rail, being a combination of wood and iron, for preventing the engine or trains by almost any possibility running off the line—at the same time secuting a much firmer grip or bite of the wheel on the rail, than can be obtained on the present iron trails. According to the various systems of laying rails, which have been acted upon from the commencement of the railway system to the present time, the cost has varied from 4400l, to 6000l, per mile—while, by Mr. Hopkins's plan, the cost per mile of the upper works of a complete double line, would not much exceed 2000l, per mile, the inventor states, (and, in the absence of actual experiment, we see no reason to doubt the conclusions at which he arrives, viz.;) that the patent wooden rail possesses very high and peculiar engineering advantages, while it is free from all the disadvantages and defects of the iron rail; and that, by the addition of the safety rail, which is a distinct appendage to the wooden rail, on which the wheels run, all accidents, arising from the ongine or carriages running off the line, are rendered impossible. The following is a description of this invention:—In the first place, it must be premised that all the timber used must be paynised, rendering it semi-metalliferous, proof against wet or dry rot in every situation, and resisting the attacks of insects. Sleepers are laid either longitudinally or transversely; on these are laid the wooden rails, having on the inner edge an iron friction plate bolted to it, to receive the friction of the flange of the wheels. The protection rail is a continuous line of timber, capped with iron, which slightly projects over the wood on the side next the wheel; it forms in section a right angled triangle—its also bolted to the sleepers—and placed either outside or inside in such a manner, that while the wheels are in their proper place; it does not touch; but, should a jumping motion occur, wit HOPKINS'S SAFETY RAIL FOR RAIL WAYS .- We have, during the week been favoured with an inspection of a new description of rail, being a com-

The Zinc and Coal Mines of Prussia.—The great demand which now exists for zinc on the continent of Europe, and the marked success which has attended the working of zinc mines by companies in Belgium and France—such as the Vicille and Nouvelle Montagne, and the l'Autopius et des Mines Reunis Companies—holds out the most herative prospects from the produce of this metal, particularly where the ore and abundance of coal are found in the same locality. An association has been formed under the title of the "D'Arlincourt Prussian Zinc and Coal Company," with the view of working some most extensive concessions in the Prussian territories, containing abundance of calamine (carbonate of zinc), and coal of excellent quality, and for which a lease has been secured for 45 years. The first of these is called Wilhelmine, situate at Stolberg, near Aix-la-Chapelle; and consists of 1660 acres of mining property, containing extensive deposits of calamine, which produces 42 per cent. of zinc, associated with coal, lead, and iron. The operations of the company will, however, be directed particularly to the distillation of zinc, and the sale of coal for household and manufacturing purposes. The other portion of the property lies in the townships of Barmes, Schwalm, and Langerfield, in Dusseldorf, and consists of a rich coal-field, possessing several bods of bituminous coal, so near the surface as to render steam power unnecessary. The right of mining extends over 15,000 acres, extending in longth 154 miles, through a district studded with manufactories; and the State rail-way, now in course of construction, passes both property fice in the other property fire in property fire in property fire in property fire in the state rail-way, now in course of construction, passes both properts, and will be of the autority manufacturing representations. THE ZINC AND COAL MINES OF PRUSSIA .- The great demand which way, now in course of construction, passes both properties, and the State rail-the atmost importance in presenting extraordinary facilities for the con-veyance of coal to all towns within 50 miles. The coal, we are informed, is fit for smalling/even at the depth of 20 ft.; but at 100 ft., is of the most superior quality for household and other purposes. It takes about 18 tens of coal to produce one ten of zinc; and the circumstance of the coal and

ore being rarely found in the same locality, has been the cause of its high price, and has, to a certain extent, prevented its fair competition with the other metals; and as in these concessions they are found in united shandance, there is little doubt but that much more profitable results mus follow their working. One very curious fact, in connection with this property, is, that the calamine is connected with an aluminous schist, which, from time immemorial, has been employed in the manufacture of sulphate of alumina (alum); while the more valuable part (the carbonate of zinc), has been thrown on one side as useless, forming an immense hill of calamine, called the "Red Mountain," ready without labour for the smeltinghouse. The purchase money required for these concessions is 300,000.

—200,000l. of which is to be taken in shares; and it is, therefore, proposed to raise a capital of 400,000l., in 20,000 shares of 20l. each, when operations can immediately be commenced, and profitable returns secured.

New Delabole Slate Quarry Company.—We have before us a prospectus of a company, formed for working the famous Delabole slate rock, situate in the parish of Warbstow, near Launceston, seven miles from Camelford, and four from a shipping port. This slate has been worked and well known for the last half century, and which for beauty of colour, closeness of texture, and strength, is unsurpassed by any in the market. The formation of this company can, therefore, hardly be considered a speculation, as from the inexhaustible nature of the material, and the markets continually open for its sale, it requires but a straightforward system of prudent economy in the management to render it at least equal to the Old Delabole Company, whose shares of 25L, paid up, are worth 45L. The slate is most valuable for staircases, belconies, paving, lintels, fishmongers' and poulterors' stall boards, cisterns, tombs, and other similar purposes; and some tablets in the north wall of the ancient church of St. Teath show it to have stood the ravages of the destroyer, Time, since 1686. A lease has been obtained for the term of 21 years, at 20s. per man per annum under 20 men, and 30s. for all above; and it has been calculated, from the most careful estimates, that after paying 25 per cent. per annum to the shareholders, there will be a clear balance of upwards of 1000t, a year to form a reserve fund, which in little more than two years will pay off the first deposit of capital—viz.: 2l. 10s. paid is considered sufficient to put the quarry into a profitable state of working.

fund, which in links more than two years will pay off the first deposit of capital—vize: 24 tos, paid is considered sufficient to put the quary into a profitable state of working.

THE GAUGE QUESTION—PROFOSED SETTLEMENT
The report of the commissioners, appointed in July lant to investigate this important question, having been land before a Committee of the Profosed this important question, having been land before a Committee of the Profosed this important question, having been land before a Committee of the Profosed profosed in July lant to investigate this important question, having been land before a Committee of the passengers in decided preference is due to either gauge; that with respect to speed, though we think the advantages are with the broad gauge, wethink the public safety would be endangered, in employing the greater capabilities of the broad gauge, much beyond their present use, except on roads more considerated, and more substantially and perfectly formed, than those of existing the profosed profosed the profosed profosed to the general traffic of the country convenience, and to be more substantially and perfectly formed, than those of existing the profosed profosed profosed profosed profosed to the general traffic of the country convenience, and to be more substantially and perfectly formed, than those of existing the profosed profose

by the Great Western Company." The laying one single rail at 4 ft. 84 in. distance from the inside rail of each broad gauge track on the 274 miles of railway would at once have overcome the evil, and would have enabled the Great Western Company to have worked both broad and narrow carriages, to the general convenience of the community, until by degrees they would, probably, discontinue the 7 feet carriages altogether; the expense of this, which might have been defrayed by Government, or by a fair rateable proportion on all the railways in the kingdom, would be a mere trifle, compared with the delays and inconvenience which must arise, if the present recommendation is carried into effect. At present the only broak of gauge is at Gloucester; by constructing the South Wales Bailway on the broad gauge, the points of breakage will be multiplied to an unforscen extent; at Hereford, and every point where it will be connected with the North Wales Lines, and with Shropshire, Staffordshire, Cheshire, and Lancashire. The Taff Vale and the Lianelly Lines are so situated as to form most convenient branches to the South Wales Line; but, being on the narrow gauge, that will be impossible. The Cornish Lines must also all be formed on the expensive and usclessly wider gauge, or still further confusion must ensue throughout the Devon and Cornish peninsuls. We flo trust that these points have been overlooked, and that the Government and the Legislature will still act on some better mode of getting rid of the evil, which a difference of gauge has entailed on the public, and which, it allowed to be extended as here recommended, will neutralize a large portion of the advantages of railway transit, but as regards passengers and merchandise.

METALLURGICAL TREATMENT OF LEAD ORES,-No. V.

It is very evident that such a mixture as the above, heated in cents with carbon, ought to undergo changes, inducing the sulphate to repass to the state of sulphuret, the oxide to be reduced to the metallic state, the unroasted sulphuret to become subsulphuret. This is, at least, the efhet which would take place, under like circumstances, with the above-mentioned bodies in an isolated state. Indeed, the oxide and the sulphate might react on the sulphuret; but the latter exists (as the analysis proves) in such small quantity, that the metallic lead thus produced would be insignificant. It must be admitted, therefore, that in proportion as the sulphate is reduced to the state of snlphuret by means of the charcoal, this sulphuret, so formed, reacts on the neighbouring particles of sulphate, giving rise to sulphurous acid, and matts, containing but a small quantity of sulphur. As these substances are but slightly softened, the lead separates from the matts, and leaves a sulphuret, which is richer in sulphur and less fusible than lead -a sulphuret which reacts afresh on the remaining sulphate. There are, we see, a very complicated series of phenomena, and which, doubtless, produce at the same moment, in different parts of the furnace, a sulphuret of lead at the expense of sulphate, by the aid of charcoal; a reaction of the sulphuret in the sulphate, giving rise to sulpharous acid and matts, containing but little sulphur; a liquation of these matts, which transforms them into metallic lead, and a sulphuret richer in sulphur; and, lastly, a reac into metaine lead, and a sulphuret richer in sulphur; and, lastly, a reaction of this sulphuret on the remaining sulphate, with a new formation of matts, &c. &c. We can thus, by the difference of the furnaces, account for the difference in the necessary conditions of the state of the ore. For instance, in the reverberatory furnace the passage of pure hot air tends continually to convert the sulphuret into sulphate. By a mixture of the two compounds the necessary reaction is induced, but then the residue is sulphate of lead. In the ore-hearth, on the other hand, the coal and the carburetted

of lead. In the ore-hearth, on the other hand, the coal and the carburetted gases, proceeding from its decomposition, exercise incessantly, a deoxidating effect. The sulphate again becomes sulphuret, which latter reacts on the undecomposed sulphate, and a sulphuret is the residue.

Having premised thus much, we will proceed to the description of the actual operation, as carried on at Pezay. The furnace is set in operation by burning in it a certain quantity of wood charcoal. This expense is much moderated by fusing (at the time the fire is getting up) the "runnings" (condures) before-mentioned, as their reduction requires but a very low temperature. This done, more charcoal is added; and above that, at the side of the tuyere, is placed about 1 cwt. of ore—after which the blast is thrown on. In about a quarter of an hour the lead generally commences running. The charges succeed each other every half hour, until about action Operation, as a carries on a search of the second control o

tions, and the furnace recharged. The same operations are repeated during 14 or 15 hours, which time constitutes a "smelting shift," in which time from 20 to 30 cw/s. of lead are produced. By this process, the purest part of the lead, as also the silver, are separated by liquation, as it were, from those subtances with which they were mixed, without the latter entering into fusion. The low temperature employed on the ore-hearth is the principal cause of the great purity of the lead obtained by the foregone processes: by this process the ore yields 66 per cent. of good lead, and about 2 cwts. of ore are treated in about 40 minutes. The slags proceeding from this process undergo a complete fusion on the slag-hearth, where nearly all the lead they contain is furnished.

[To be continued in next week's Musino Journal.]

[To be continued in next week's Mining Journal.]

THE MINERAL WEALTH OF SOUTH AUSTRALIA.—No. III.

BY FRANCIS DUTTON, ESQ. The prospects of South Australia becoming an extensive mining counry, is next considered by the author; the subject intimately affects a large and important interest of home industry, and cannot fail, in a short time, to draw powerful attention to it; any new field of enterprise is looked upon for a long time with indifference and incredulity, and so, probably, will the mining capabilities of South Australia. Foreign mining speculations generally are in bad odour, and altogether there is much prejudice to be overcome: still there are arguments which must be all convincing; when large quantities of copper ore are seen to arrive from South Australia month after month, and sell at far higher prices than either Cuba or South American ores, which have hitherto been the richest in the world, they will begin to think there must be something in it after all. Mr. Dutton here relates an anecdote:—A gentlemen connected with mining in Devonshire, with whom he conversed, observed—"Pooh! pooh! my dear Sir, all the ore you will ever send from South Australia will be but as a drop in a bucket." He says, time will show; but I can inform him, that the quantity of ore, which will arrive in Swansoa even this year from South Australia will be a drop of no inconsiderable size. Whatever her disadvantages might have been, considerable interest has already been excited amongst will be a drop of no moonsiderable size. Whatever her disadvantages might have been, considerable interest has already been excited amongst a good many intelligent capitalists in London—and London is England. Several companies have already been organised, and this promising field for the investment of British capital, will, doubtless, soon, from its own intrinsic merits, command that attention it deserves. Those who have altrinsic merits, command that attended it deserves. Those who have arready embarked in mining enterprise will assuredly have no reason to regret, that they were among the first; and the time is particularly opportune, as the South American ores are falling off in produce, and the rich South Australian ores will be much sought after by the smelters. With respect to the facilities of transport, as compared with South America, he observes—in South America it is a well known fact that thousands of tons of ore are lying at the mouth of the mines, without the means of bringing them to the coast event at a wingon serve when the mining districts there of ore are lying at the mouth of the mines, without the means of bringing them to the coast, except at a ruineus expense; the mining districts there being so mountainous that the only available transport is by mules. In South Australia, the whole mineral district, as already explored, between Cape Jervis in the south, and Mount Bryant in the north—a distance of 150 miles—is easily accessible in every direction; the hills are of moderate elevation, and present no insurmountable barriers to the passage of wheel carriages—the roads passing either across extensive level plains, or winding round grassy hills, and through fertile valleys, are naturally very good. The climate being dry, the roads are not liable to be rendered impassable for any length of time by the rains, as these are seldom of more than a few days' duration at one period, with intervals of fine weather, which quickly dries and consolidates the surface again. The transport is carried on by drays drawn by six or eight bullocks, each having 2 tons of ore, and with which they travel from 15 to 18 miles a day; and in every direction there is abundance of natural pasture to feed the animals on at the end of each day's stage; the cost of transport is, by this means, less than 6d, per ton per mile. The next point of consideration is the means possessed to transmit the ore to England; and here the great staple article of the colony (wool) is of immense assistance—it being a light bulky arpossessed to transmit the ore to England; and here the great staple article of the colony (wool) is of immense assistance—it being a light bulky article, and requiring a considerable quantity of dead weight to ballast the ships with, prior to taking it in: it is, therefore, obvious that vessels will find it worth their while to take in the ore at a moderate freight, instead of having to pay 2s. 6d. to 3s. 6d. per ton for sand ballast. They require rather better than one-third their registered tomage as ballast; and taking the number of ships that annually load either at Port Philip, Sydney, Hobarton, Launceston, and Adelaide, at 100, and each of 300 tons burden, would give facilities for the transport (allowing for other heavy articles) of 10,000 tons of ore per amum, without encreaching on the room required for wool. With respect to the labour which will be required, and quired for wool. With respect to the labour which will be required, and available, the prospects are no less satisfactory, although, for some years to come, it is probable the supply will not be commensurate with the demand. There is no fear of overstocking the labour market of Adelaide now, for not only will the mines give employment to a vas number of men, but the very increase which this will cause to the population, will require an additional mumber of people to grow food for—and thus the increasing supply of the mining population will not only of itself increase the wealth of the country, but, by their consumption, increase the available market for the produce of the it dustry of others. The existence of coal in South Australia has been reported, but is not yet verified; and, even should it not be, the unabounded extent of the forests—the wood of which, when deled, burns with an intense heat and steady blaze, from the resinous matter it contains, and makes most superior charcoal—will enable the same operations to be carried on in smelting, as has for centuries been adopted in other mining districts, where coal does not exist. The question—does coal exist in the colony 7—is one of the greatest importance; and on this subject we give the substance of the view entertained by Mr. Fortum, whose experience of the colony has enabled him to take a comparatively correct geological view of the positions of the strata, in the absence of facts elicited by actual borings. He says:—"The mountain claim, which may be considered the backbone of the country, extends north and south for a distance of 150 miles, the country extends north and south for a distance of 150 miles, during which its features, of course, vary considerably, but, generally speaking, the clay slate, mice achies, given should be considered the backbone of the country, extends north and south for a distance of 150 miles, during the clay slate, inch and the contract of the country civends in the contract of the country with the country with the country wit available, the prospects are no less satisfactory, although, for some yet come, it is probable the supply will not be commensurate with the den There is no fear of overstocking the labour market of Adelaide now

NOUVELLE MONTAGNE ZINC MINING COMPANY. We have, at various times, noticed in this Journal the rapid prog eing made in the manufacture of zinc, particularly from the abundant mines of the Nouvelle Montagne Company in Belgium, and other parts, and the increasing demand for this valuable and most serviceable metal all over the north of the continent of Europe, France, Portugal, Spain, and Italy-throughout the United Kingdom, which annually imports a considerable quantity from this and other companies, not only for our own consumption, but for exportation to North and South America, the West Indies, Havana, the Brazils, Buenes Ayres, India, China, and other parts of the globe. At the general meeting, held on 30th Sept. last at Verviers, of the 3000 shares which constitute the company, 2350 were represented. According to the terms of the statutes, there was a secret scrutiny for the renewal of commissaires, or commissioners of management, for the second renewal of commissaires, or commissioners of management, for the second year. Those who are in office are—James Wyld, Esq.; Adolphe Simonis; Count de Damremont; Jules Maly, of Verviers; and the Chevalier de Sauvage, of the Court of Cassation of Belgium, president, who will continue as such till the usual general meeting, which is appointed to be held in Sept. next. The Government requiring, by the law, that the majority of the commissioners shall constantly reside in Belgium, Messrs. Fermin de Tastet and Magniac, having voluntarily retired, two new Belgian managers have been named. We think we cannot do better than give the following extract of the commissioners' report for the year 1844-45, which was presented and read at the last general meeting—so that a comparison may be made with the one to be submitted thus year, and that the progress of this well-conducted and prosperous company may be duly, appreciated: may be made with the one to be submitted this year, and that the progress of this well-conducted and prosperous company may be duly appreciated:

—"After having examined, with the most scrupulous attention, the returns and account-books for 1844-45, we have been satisfied with their correctness. The order and clearness which everywhere exists, is not only honourable to the administration, or committee, but also the chairman, who, independently of the direction of three establishments, situated at rather a great distance, has been necessitated to superintend the building works now going on, and of vast importance, simultaneously at Engis, Prayon, and Verviers. Notwithstanding this, gentlemen, our investigation has not shown us any irregularity in the accounts. We have seen everywhere exist the greatest economy in the building works, as well as all the works in general. It was, above till, in the works of discovery, where rigidness was requisite; and we have been enabled to convince ourselves, by several visits made during the year by one of us, that these undertakings have been carried on with the greatest economy. In the working of the mines also visits made during the year by one of us, that these undertakings have been carried on with the greatest economy. In the working of the mines also nothing has been spared to consolidate the galleries, and every thing is well arranged to facilitate the labour of the miners. We have directed our special attention to the examining of the general expenses, and we have not found any but what were useful and necessary. The personnel, or officials, in the different departments, including the conductors of works, and even the salary of the director, do not exceed the sum of 915l. 5s.; and, notwithstanding, they have to give an account of a large quantity of plans, and other extraordinary works, occasioned by the new buildings going on. We have seen, gentlemen, in the report of the managing director, that the account-books closed on the 31st of May in this year, and approved of by the administrator, present a balance in favour of the company of 120,804l, being an increase on the year 1844 of 804l. 5s. It was to this balance sheet of accounts we particularly directed our attention,—and, in consequence, we have ascertained with the greatest eare, that nothing in the social balance has been estimated higher than its real value. We here see,

We have seen, gentlemen, in the report of the management of the company of 120,504, their an increase on the 31st of Maj in this year, and approved of by the administrator, present a balance in favour of the company of 120,504, being an increase on the year 1844 of 8045, 5s. It was to this balance sheet of accounts we particularly directed our attention,—and, in consequence, we have ascertained with the greatest care, that nothing in the so-cial balance has been estimated bigher than it seal value. We here see that instead of exaggerating the of the greatest species to making known all our resources, leaving for the future the opportunity of showing their extent. The immovable goods, or real estate, have been estimated, according to the inventory of June, 1844, and the increase which exists, arises from the purchases made since that period—purchases which were absolutely indispensable at the establishment of: Engis. In the valuation given of the preparatory works and discovery, the director has deducted from the expenses the profile arising out of the different cree extracted from those works. We particularly mention the works of discovery of Dos, which had already produced, on 31s of May, tron ore to the amount of at least 804, which demonstrated a great metallargic richness, of which no account has been taken in the estimation amost endanger in the profile arising the profile arisi

Original Correspondence.

THE LEAD TRADE.

THE LEAD TRADE.

SIR,—We have frequently observed important intimations in your Journal as to the value of lead ore, and lead in general; but, latterly, you hardly seem to have been well informed, or you would have communicated the fact, that both are greatly fallen in price. Even last week, a Government contract was taken at a price little, if any, above 17L per ton. Load has also been offered, in the stream of the Thames, for the same price, with a discount for each. The celebrated knight, who, like a certain turf-lord, had determined to be premier in the lead trade, has fallen completely into the rear—being quite eclipsed by the steady smelters, whose ruin he had predicted, by the application of his talent and credit. For the Cornish ores this knight does not now bid at all, as the smelting trade is getting into its old regular course: we are, however, aware that, at this time, there are considerable importations of lead from Spain and America, and ore from all parts, even those most distant, so that we fear there will be more of both lead and silver than the market can take at the present prices; and should be glad to know, through any of your valuable correspondents, to what price it may reasonably be expected lead can fall, in order that we, as miners, may have some guide in our proceedings, which will very much oblige your regular roaders—A Company of Mineras: London, June 10.

STRUVE'S MINE VENTILATOR.

SIR.—The patent mine ventilator of Mr. Struvé, as described in last week's Mining Journal, for clearing coal mines of fire damp, is a most wonderful and important discovery, if practicable. I suppose the idea was taken from the atmospheric railroad tube and exhausting engines; what instructive lessons are taught by railroad making—they make engineers, and engineers make railroads! But I would just ask the patentee of this mine exhauster, has he ever put it in practice? has he had it at work on any of the numerous fiery coal mines in the Swansea district of which he is the consulting engineer? and does it effect what he assumes for it? If not, I think he will find that, however pretty, diagrams and descriptions may appear on paper, coal and other mine proprietors will require to see a little practical effect, before they adopt every wild scientific whim. If Mr. Struvé will inform me, where his machine may be seen at work; and, if not yet erected, when and at what mine it will be ready for action, probably a few batties and underground agents, with myself among the number, will attend and learn how to act—as I do think it is wrong to accuse us of cupidity, while the fault arises from our ignorance, and we are doing all we know how to do.—T. Daakin: Blaenavon, June 8.

DR. DRAKE'S IGNITION ENGINE.

Sin,-Aware of your general desire to lay before your readers descriptions of scientific discoveries, and being anxious to introduce one of mine to public notice, I forward you some particulars relating to my discovery

to public notice, I forward you some particulars relating to my discovery of a new motive power, the insertion of which, I hope, you will allow.

I may premise, that I had under construction, at Cincinnati, an engine of large size, for the purpose of testing the invention: much delay, however, took place in its erection; and, although imperfect, it displayed great power, estimated at over 40 horses, and answered the purpose of fully sustaining the promise of the model. Owing to local causes and difficulties, I was induced to suspend its present construction; but being anxious for its introduction into Europe, particularly England, I am induced to draw the readers of your valuable Journal thereto, by giving such a general description as will render a knowledge of its principles easily attainable.

For some years past my attention has been applied to the construction of an engine, by means of which the whole exploding force of carburetted hydrogen (coal, &c.) gas and air in combustion might be directly obtained and economically applied to the general purposes of mechanical motion.

nydrogen (coal, &c.) gas and art in combustion might be directly obtained and economically applied to the general purposes of mechanical motion. In this effort I have been fully successful; and, in the latter part of 1843, publicly exhibited at work for several weeks a model engine of two horses power. This machine attracted much attention at the time; and the favourable mention made through the public prints, obtained the notice of the Editor of the Mining Journal, who honoured me with a letter of inquiry. Owing to arrangements I was making for more extended trial of the principle, and the want of natural protection abread this information. die Later of the Many Johnson, who honored me with a letter of inquiry. Owing to arrangements I was making for more extended trial of the principle, and the want of patented protection abroad, this information I did not feel at liberty to communicate; and inasmuch as the most important feature of the invention—the method of igniting promptly, permanently, and with simplicity, the mixed gases, while confined behind a close-fitting piston, and so obtaining the full force of the explosion, or expansion—was my servet (the result of years of chemical investigation), and could be so kept, pradence dictated that course. These further trials have matured and perfected the original (somewhat imperfect) invention; and I have had the force operating through a machine of nearly 50-horse power having a cylinder of 16 inches diameter, with a stroke of 6 feet; but this large engine might have been better adapted, and its use was but temporary: it answered, however, the purpose of fully sustaining the promise of the model. In place of gas, the vapours of liquid carburets, such as oil or spirits of turpentine, naptha, &c., were occasionally used, and are perfectly available; but the gas is better adapted, and is found to be (when manufactured for the purpose) more economical, reducing the cost of running an engine below that of steam.

The question may naturally suggest itself—why has not this engine been introduced into use, if it be what is claimed? and after answering this

percectly available; but the gas is better adapted, and is found to be (when manufactured for the purpose) more economical, reducing the cost of running an engine below that of steam.

The question may naturally suggest itself—why has not this engine been introduced into use, if it be what is claimed? and after answering this query. I will state its various advantages, in a mechanical point of view, and my motive in addressing you, sir. In the first place, an improvement so radical as this must meet scepticism and opposition in any society, and much more in this country, where novelties are regarded more as curiosities than in an utilitarian view, unless previously well tested and established. Secondly, the manufacture and use of gas is but limited, and confined to the large cities, where it is sold at prices ranging from \$6 to \$9\frac{3}{2} per 1000 cubic feet, or from about 27s. to 16s.—and, consequently, at a price too high for economical use. And again, the expense incurred any experiments, and in building engines, made it prudent to lay the matter aside for some time, and devote my labours to more directly profitable pursuits. In Dr. Neil Arnott's Elements of Physics and Natural Philosophy, part 4, \$ heat, while treating of the expansion of air, he describes the gas-vacuum engine of Mr. Brown, and then so expresses himself—"It is a question which the author thinks will one day be answered in the affirmative, whether nearly the whole force of exploding gas may not be converted into a calmly working power, producing from a given expenditure 10 times (or more) the effect of the vacuum engine described, and, therefore, an effect more than equal to that of a steam-engine, and entiraly differing from the plan hinted by Dr. Arnott, to whose book and arguments I would respectfully call your attention. Now, the limits of explosion of ordinary coal gas, when mixed with atmospheric air, range from about 5 to 14 parts of air to 1 of gas—the maximum force, making an expansion or store of at least 10 atmospheres, being explosion is barely adequate to the slow propulsion of the engine; and again, the speed is increased, almost instantaneously, by an additional supply of the combustible. The valves of my engine are sliding, worsketh by a cam, so constructed as to cut off at any determined point—one-sike of the stroke being found the most effective in the trials made with the gas of this country. But the most important feature of the invention is the apparatus for the firing of the gas, altogether differing from any method ever suggested, being not a lamp, or electric, or galvanic, but an arrangement adjusted to the valve seat, occupying but a small space, permanent, and the action, when once commenced, sustained through the motion of the engine. From this distinguishing feature of the machine, it has been named the ignition engine. This ignition apparatus, perfectly simple and durable, is always ready for instant service; and the engine, when using gas, may be put in operation within five minutes: in fact, the model has been started repeatedly within the minute.

What I have said, with the few papers which I shall enclose, may give an idea of the general character and principle of the invention, and shall candidly state what has suggested itself to me with regard to its application to the purposes proposed for Mr. Parsey's arrangement. In the condensation of dir by means of the force pump, it is well established in natural philosophy, that the sudden compression of air, by which its atoms are brought nearer together, causes a great increase of resistance by the repellant power of the before latent heat, thus expelled—so that it requires a pressure of much more than two atmospheres to force the air into oue-

half of its original bulk,—and the probability is that, as the condensation is carried to a greater extent, the resistance is proportionally increased, requiring more initial force for its ultimate condensation than that given by calculation—consequently, if the resistance could be reduced by one-half, so much would be the saving. Again, could a method be suggested by which the necessity for several stations for supplying the air-vessels be obviated, great economy would be manifest. It is proposed to condense the air of Parsey's engine from 70 to 140 atmospheres—a pressure, in my humble opinion, based on some practical knowledge that will be found attended with difficulties when attempted for general use, and on a large scale: the leakage of reservoirs from straining, and the nature of the material used, together with the mishaps of pumps and machinery working under so great a force, may present serious difficulties,—but this is only an opinion respectfully presented. This amount of stored force it is proposed to recruit at stages of 30 miles. Now, we will suppose that, in the place of atmospheric air, gas is substituted, to be used at atmospheric pressure, by its appropriate engine; and for the enormous pressure of 100 lbs., and der ao great a force, may present serious difficulties,—but this is only an opinion respectfully presented. This amount of stored force it is proposed to recruit at stages of 30 miles. Now, we will suppose that, in the place of atmospheric air, gas is substituted, to be used at atmospheric pressure, by its appropriate engine; and for the enormous pressure of 100 lbs., and apwards, we make 50 atmospheres, or 750 lbs. to the square inch, the maximum. This at once removes some objectiens that may be found to be serious, and that this supply of atmospheric air, and used by the engine under 60 lbs. pressure, will carry the train 20 miles. It has been demonstrated, that nine volumes of atmospheric air (to be taken from the atmosphere as wanted), when mixed with one volume of coal gas, forms a mixture which, when exploded, will give an initial force of 150 lbs. to the sq. inch, diminishing ast the pisson recedes before the expansion; and supposing the stroke carried out until this force is expended, the average power will be 75 lbs.; and I would again suggest a reference to Dr. Atmott's Physics for an illustration—adding that the expansion in my engine appeared to sustain his vlews, the force operating without noise, but calmly, and with the regularity and general appearance of the steam-engine; the products of combustion being fixed gases (with the exception of a very small quantity of water), and being permanently elastic, occupying very nearly the space when cooled as the original volumes, and, when heated, acting expansively. Having seen that one volume of gas, when mixed with the proper quantity of air, will represent 10 volumes of air in the reservoir, should it alone be used, we receive it in the cylinder with nine parts of air admitted from the atmosphere, fire it, and have it expansively. Having seen that one volumes of air in the reservoir, producing a force or power fully under control, diminished at pleasure, and with sufficiently large area of piston, capable of running of driving a local conditions. The South Britain. In conclusion I shall state, that I should be willing to enter into arrangements on the most liberal terms, and would transfer an equal right to my invention for railroad purposes, and the one-fourth for all general purposes, in Europe, for the consideration that the costs of procuring patents, and introducing into use, be incurred by the party entering into the arrangement, with the payment to myself of 500L, for the purpose of defraying my expenses to and in England, while engaged in the proper construction of the first engines. This sum to be secured to me in this country. There are probably many points which I have not touched upon, which you would like to have elucidated, and in some matters I may have been prolix; but you will perceive that my remarks are submitted without much method, and are intended more as furnishing general ideas on a subject which I trust may prove of mutual interest. Should you feel interested enough to make further inquiries, I beg you will not hesitate to make them most fully, and so far as lies in my power they shall be frankly and fully answered.—Alfred Drake: Philadelphia, April 23.

THE ACCIDENT ON THE BRANDLING JUNCTION RAILWAY.

SIR.—One of your papers has been forwarded to me, containing some observations reflecting upon me, relative to the crooked line of the Brandling Junction Railway, at the west end of South Shields; I perfectly agree with the writer, that in regard to this matter the saddle should be put upon the right horse. I request you will insert the following statement in your paper, as a reply to the letter of the "Disinterested One," which I should have answered sooner, but had to obtain the necessary plans and documents; and you will oblige me by allowing them to remain in your office for a short time, for the satisfaction of any person who may wish to see them:—In the month of January, 1838, having heard that the Brandling Junction Railway Company intended to make their line of way through my land in two places, near the west end of South Shields, as laid down in a plan of the intended Slake Docks; and in February of that year I met Mr. Brandling, the managing director of the newly-incorporated company, and inquired if that was the case? when that gentleman said that they would probably require to come through one part (that on which the present line of way passes); but as to the other (the straight line), it was never contemplated by the company, and that it was a mistake of Mr. Wood's, and, at all events, they would come to treat with me if they did want any of my ground. They, subsequently, took pessession of it, without giving me any previous notice, and I have not got any componsation to this day. In the year 1840, the directors of the company-commissioned Mr. Clay to treat with me, for the purchase of some ground at Laygate; but the terms of negotiating, to which that gentleman was restricted, were such, that he said he could not think of treating any person in the unhandsome way they wished, and that, if they would leave the matter to him, he thought he could make a bargain with me in a few minutes. In that opinion I fully concur with Mr. Clay. He, of course, declined acting for the company, who employed Mr. Stod and that, if they would leave the matter to fine, be thought he could make a bargain with me in a few minutes. In that opinion I fully concur with Mr. Clay. He, of course, declined acting for the company, who employed Mr. Stoddart to wait on me with a plan in Angust, 1840, to inquire if I would dispose of the land in question. My reply was, that I had made arrangements for another mode of employing it, but had no objection to sell it to the company—stating at the time, that as I had not obtained any compensation for the former trespass in 1838, it would be desirable to have that sattled at the same time, in which Mr. Stoddart agreed, and said he would obtain power to settle that also—I heard no more of Mr. Stoddart. Mr. Nicholas Wood, engineer to the company, then came to me to negotiate for the land, and, in reply to my preliminary questions, admitted that the directors were a divided body, and that there were some of them they could not trust, and that he represented all parties. In reply to Mr. Wood's question, as to price, I said that it was the duty of a porson coveting the property of another, to make an offer for it; this Mr. Wood declined to do—saying that the company had made many dear purchases, and they must now have a cheap one. After negotiating for some time with Mr. Wood, and receiving various letters from him, I at last wrote

him that, if he would make me an offer, I would say whether, or not, I would accept it, and, if not, I would be prepared to say what sam I would take. We afterwards met at the Laygate, when, instead of the ground being treated for, as contained in the first plan, a new one was laid before me, with two or three different lines—all of them crooked—for which I, of course, was not prepared to treat at the moment In conclusion, I now state that no price was offered to me for the land at Laygate, nor any sum named by me; and the observation contained in the Reply of the Directors of the Brandling Junction Railway to the Report of the Committee of Investigation is entirely false, as relates to the obstacle in obtaining a straight line of railway to the station at the Market-place; and an inspection of the plan would warrant the opinion of the investigating committee, and the truth of the general report, that they never intended adopting the straight line.—WILLIAM WALLIS: London, June 10.

ON THE COMPOSITION OF THE FIRE DAMP OF THE NEWCASTLE COAL MINES. BY THOMAS GRAHAM, ESQ., F.R.S., ETC.

Some years ago, I examined the gas of these mines, with the same result as Dr. Henry, Davy, and Dr. Turner, had previously obtained-namely: that it contains no other combustible ingredient than light carburetted hydrogen. But the analysis of the gas of the coal mines in Germany, subsequently published, showing the presence of other gases, particularly of olefant gas, has rendered a new examination of the gas of the English olefiant gas, has rendered a new examination of the gas of the English mines desirable. The gases were—1, from a seam, named the five quarter seam, in the Gateshead Colliery, where the gas is collected as it issues, and used for lighting the mine.—2, the gas of Hebburn Colliery, which issues from a bore let down into the Bensham seam—a seam of coal which is highly charged with gas, and has been the cause of many accidents; and, 3, gas from Killingworth Colliery, in the neighbourhood of Jarrow, where the last great explosion occurred.—This last gas issues from a fassure in a stratum of sandstone, and has been kept uninterruptedly burning, as the means of lighting the horse-road in the mine, for upwards of 10 years, without any sensible diminution in its quality. The gases were collected personally by my friend Mr. J. Hutchinson, with every requisite precaution to insure their purity, and prevent admixture of atmospheric air. The usual endiometrical process of firing the gases with oxygen, was sufficient to prove that they all consisted of light carburetted hydrogen, with the exception of a few per cent. The results were as follows:—

Gateshead Gas.—Specific gravity, 0.5802.—Carburetted hydrogen, 94-2; nitrogen, 4-5; oxygen, 1-3—100-0. The density of such a mixture is, by calculation, 0.5813.

Killingworth Gas.—Specific gravity, 0.6306.—Carburetted hydrogen,

to prove that they all consisted of light carburetted hydrogen, 942: expection of a few per cent. The results were as follows:—

Gateshead Gas.—Specific gravity, 0:5802.—Carburetted hydrogen, 942: nitrogen, 457; oxygen, 1:3—1000. The density of such a mixture is, by calculation, 0:5813.

Kilimpoorth Gas.—Specific gravity, 0:6306.—Carburetted hydrogen, 82:5; nitrogen, 16:5; oxygen, 1:0—1000.

The theoretical density of this gas, deduced from its composition, is 0:6308. The Hebburn gas was of specific gravity 0:6327. Seventy—nine measures of the Killingworth gas, mixed with an equal volume of chlorine, left in the dark for 18 hours, and afterwards washed with alkali, were reduced to 75 measures; from which the presence of four measures of ole-fiant gas might be inferred; but in a comparative experiment made at the same time on 2:3 measures of pure gas of the acetates, mixed with an equal volume of chlorine, a contraction occurred of 1:3 measure—that is, in exactly the same time opportion as with the fire damp. It was observed, that phosphorus remains strongly luminous in these gases, mixed with an equal volume of chlorine, as a contraction occurred of 1:3 measure—that is, in exactly the same time of the contraction occurred of 1:3 measure—that is, the property. Olefant gas itself, and all the allied hydrocarbons were thus excluded. Another property of pure light carburetted hydrogen, observed, by myself, enabled me to exclude other combastible gases—amen!y: that the former gas is capable of entirely resisting the oxidating action of platinum black, and yet permits other gases to be oxidated which are mixed with it even in the smallest proportion—such ascarbonic oxide and hydrogen, the first slowly and the last very rapidly; air or oxygen gas being, of course, also present in the mixture. Now, platinum black had not the smallest action on a mixture of the gas from the mines with air. Normolic and the contraction, and not trace of carbonic action. This decid, however also an outleast of the carbonic action of the c ing the combustion to a great distance through the mine—while its continuity would be broken by such mixing, and an explosion, when it occurred, be confined within narrower limits.—Secondly, no effective means exist for succouring the miners after the occurrence of an explosion, although a large proportion of the deaths is not occasioned by fire, or injuries from the force of the explosion, but from suffocation by the after damp, or carbonic acid gas, which diffuses itself afterwards through all parts of the mine. It is suggested that a cast-iron pipe, from 8 to 12 in in diameter, be permanently fixed in every shaft, with blowing apparatus, above, by which air could be thrown slown, and the shaft itself immediately ventilated after the occurrence of an explosion. It is also desirable that, by means of fixed or flexible tubes, this auxiliary circulation should be further extended, and carried as far as practicable into the workings.

KEEF COOL—Next to the visit of Ibrahim Pacha, we consider the arrival of a carge of 600 tons of Wenham Lakoice the most opportune and important event of the week; and, especially as the thermometer ranges at 86° in the shade at the moment we are writing. The intense heat of the American summer appears to have followed the icy adventure, as the albatros and Cape pigeon follow ships on their voyages round the Cape of Good Hope and Cape Horn. This is the largest carge of ice, we understand, which has ever entered the port of London. The lovers of this modern and sanatory luxury may now rusticate, as it were, in the shades of Wenham Lake, without the discomfort and expense of a voyage across the Atlantic.

Proceedings of Bublic Companies.

MEETINGS DURING THE ENSUING WEEK.

MESTINGS DURING THE ENSUING WEEK.

HOAT ... Shropshire Minerel Railway—Londen Tavera, at Twelve for One.
Hayle Boilway—office, at half-past Twelve.
Wexbord, Wuterford, and Vulentia Hailway—Londen Tavera, at Twe.
NDAI. ... Midland and Sactern Counties Railway—Londen Tavera, at One.
ISDAY. ... Leicester and Bedford Railway—Londen Tavera, at One.
ISDAY. ... Mew Delabole Slate Quarry Company—at Messrs. Bullock and Liseombe's
effecs, 35, Lincoin's Inn-Seids, at Two.
Neptame Marine Insurance Company, office, at Twelve.
Gravesend and Rochester Railway—George and Vulture Tavera, at One.
UREDAY. ... Colembias Mining Association—office, at One.
Exeter and Exmouth Railway—London Tavera, at Ten.
Ichemond Railway—London Tavera, at Twelve.
National Reversionary Investment Company—office, at Two.
Cockermouth and Workington Railway—office, at Eleven.
Newport, Abeigavenny, and Hereford Hailway—office, the Eleven.
Isle of Man Railway—Hall of Commerce, at One.
[The meetings of Mining Companies are inserted among the Mining Intelligence.]

BANK OF BRITISH NORTH AMERICA.

The yearly general meeting of this company was held at the establishment, in St. Helen's-place, Bishopsgate-street, on Tuesday.

ALEXANDER GILLESPIE, Esq., presided. The SECRETARY read the advertisement calling the meeting, and the pert of the directors, which was as follows:—

report of the directors, which was as follows:—

Report of the Directors of the Bank of British North America to the Proprietors, at their Tauth Fearly General Meeting.

At the last annual meeting it was stated by the court of directors, that the legitimate demand for banking accommodation in the North American colonies, had caused the entire capital of the bank to be engaged in active and profitable employment; and they have now the pleasure to report, thus, throughout the year 1845, the business has constitued to exhibit a steady and satisfactory improvement. The Hamilton branch, the opening of which was reported last year, has become an important member of the institution; and, in addition to the agencies at Fort Hope and Bytown—noticed in the last report—the directors have been induced, by the increasing commercial importance of Canada West, to open similar establishments at Brantford and Dundas. While, however, they have thus availed themselves of the opportunities presented for extending the profitable operations of the bank, the directors have not fielded to impress upon the managers and local boards of the different branches the importance of acting with great prudence, so as to give no encouragement to excessive speculation; this having become the more necessary, from the changes in the tariff and in the corn laws, affecting the trade of the North American colonies, proposed to Parliament by her Majesty's Ministers.

In January last, Joseph Fidler Reads, then a teller at the Montreal branch, abscended, having embezzled a considerable amount of the bank's funds. The prompt measures taken by the inspector and the manager of the branch led to hisspeedy apprehension, and to the recovery of part of the stolen money. The loss to the bank by this occurrence will be about 300. sterling; and a sum sufficient to cover this loss, though interred at the commencement of the present year, has been deducted from the profits of the bank for the last year, in the account now presented. The decount of directors have onl

The CHAIRMAN did not think it required him to go into any lengthened observations upon the report. He should have much pleasure in answering any questions which might be put—so far, of course, as would be consistent with the interest of the bank; if not, he daresay the proprietors would not wish him to enter upon the subject. (Hear.) He would just remark, that it was now 10 years since the bank was established—during which period, they had gone through every many and peculiar difficulties. At the very time that the shares were issued, a panic and crisis took place amongst the American houses, which was followed by very severe pecuniary distress in the United States, and by a disarrangement of our currency in Canada. This shock had hardly settled, when the rebellion in Canada broke out, succeeded by a second panic, which made a considerable impression on our monetary relations with the colony; and shortly afterwards the directors were compelled, by the terms of the charter, to sacrifice almost the whole of the rest, which prevented them one half year from paying any dividend. However, he could now say, that they had got over these difficulties; and if they did not offer an increased dividend, they could certainly show a better situation of affairs than they had hitherto done. (Hear, hear.) The nett profits upon the capital employed, had it not been far the unfortunate robbery noticed in the report, might have been 6 per cent on the whole capital. (Hear, hear.) The accounts received after the close of the year were saccedingly satisfactory, exhibiting a large increase of valuable and safe business. He could best convey that to the minds of the proprietors, by comparing the first week in May, 1846, with the first week in May, 1845, the deposits on current account were 174,0001; in May, 1846, 233,0001. (Hear, hear.) The circulation of all the branches was 240,0001, in 1845; and in May, 1846, it amounted to 372,0001. The interest account were 1,010,0001, in an now they were 1,432,0001. The directors had uniformly or Leaving amount of undivided not profit to Dec. 31, 1845 £36,733 10 1 The CHAIRMAN did not think it required him to go into any lengthened

officer of the establishment. This party nan given security?—The recovered,—A Proprietor asked the amount of the security?—The Chairman replied, 1500l.

Mr. Lewis thought it a very trifling sum.—The Chairman said it was a large amount, considering the salary that was given, which was only about 200l. a year. The sum abstracted was nearly 6000l., of which about 1500l. was recovered, and an equal amount obtained from his socurity—leaving a balance of about 3000l; this loss was taken from the profit of the past year, although it did not occur until the commencement of the present year.—A Proprietor asked, if there was any reserve fund to meet these essualties?—The Chairman said, there was any reserve fund to meet these essualties?—The Chairman said, there was a fund which they carried off from the profit and loss account to cover all losses, from which this 3200l. was met. On reference to the report of last year, they would find they had a rest of 30,499l; in the year 1844, they paid a dividend of only 4 per cent. They had paid since them—he meant in 1845—two dividends, at the rate of 5 per cent., amounting to 50,000l; after which, the rest was still increased to 36,700l, instead of being 30,400l. (Hear, hear.)

Mr. Lewis thought, if they had got a more responsible person, and given a better salary, they would not have lost that 8000l.

The Chairman said, the delinquent was respectably commected; his father was, he believed, colonel in the army; they had most satisfactory references respecting him, and he only held the situation of teller. (Hear.) If blame attached anywhere, it was to the fact, that, during the last year,

was, he believed, colonel in the army; they had most satisfactory references respecting him, and he only held the situation of teller. (Hear.) If blame attached anywhere, it was to the fact, that, during the last year, the staff of the Montreal branch had not been sufficient, considering the recent great increase of business; but they had now increased the number of clerks, and had taken every proper means, by providing the most efficient system of check, to render any similar occurrence for the future very improbable. (Hear, hear).

Capt. Kerlar was much obliged to the chairman for his clear statement. He thought it impossible for a large concern like this, with a million of capital, no be worked without meeting with some kind of casualty; he thought the management of the directors had, on the whole, been most judicious.—The report was then adopted unanimously.

The CHAIRMAN said the next business was the election of three directors—namely: Henry Barnwall, Esq., Sir Bobert Campbell, Bart., and Robert Carter, Esq.—Each of these gentlemen were elected separately and unanimously.—Capt. Kriery then moved, and Mr. Lawis seconded, a vote of thanks to the chairman and directors, for their efficient and able management of the company's affairs, which was carried with acclamation.—The incetting was then dissolved.

MAMMOTH IN SWITZEBLAND.—In the excavations for the new road at Kaiserstuhl (Aargan) the jawbone of a mammoth, in excellent preservation, was found in the chalk stratum.

Law Intelligence.

NON-LIABILITY OF ALLOTTEES-IMPORTANT DECISION.

COURT OF EXCHINGUES (Sittings in Banco)—JUNE 12.

WALSTAR C. SPOTTHWOODS.—This important case, which has formed subject of much liscussion in the railway world, and to which the attention of the public has been for some weeks directed, was brought to a close at the sittings of the court yesterday. We

discussion in the railway work, and to which the attention of the court yesterday. We have only space to rander a brief abstract of the proceedings, which it will be seen involve a question affecting many individuals, who have readily lent themselves to the office of provisional cammittee men, and at the same time, will affect the distribution of capital, to the extent of some hundreds of thousands.

The Lond Carre Hand, at the stiftings of the court, proceeded to give judgment in the above important case. His Lordship said that this was an action of assumpti, brought to recover a sum of money, had and received; to the first count the definedant pealed non assumpti. The came was tried before him (the Lord Chief Baron) on the 22d of February last, and was brought against the defendant as one of the provisional committee of the Direct Birmingham and Oxford Railway. The company was provisionally registered under the 7th and 8th Victoris, the capital was to be 2,000,000, divided into 80,000 shares of 23, each, the deposit to be 24, 12s, 6d. On the 7th of October, 1845, the plaintiff applied for shares, and on which she paid as deposit the sum of 78. Iss. This letter was to have been exchanged for scrip. On the 27th of October the plaintiff applied for shares, and on which she paid as deposit the sum of 78. Iss. This letter was to have been exchanged for scrip. On the 27th of October the plaintiff applied for the scrip, when she was informed that the issuing of the scrip would take place on the 6th of November. On the 12th the plaintiff applied again, when she was informed that the issuing of the scrip would take place on the 6th of November. On the 12th the plaintiff applied again, when she was informed by the scrip, when she was informed that the insuing of the scrip would take place on the 6th of November. On the 12th the plaintiff applied again, when she was informed to the company we all the world of the company in the defendant of intend to less any.

It is a consequence of public confidence in the share marke

SPEED AND POWER OF THE LOCOMOTIVE, THE "GREAT WESTERN."-We noticed, in last week's Journal, the performance of a powerful new locomotive engine, built by the Great Western Railway Company, which, we are informed, is incorrect in several essential particulars. It is there stated, that the engine and tender weigh." 56 tons," and that it was ascertained the engine could, with a load of 140 tons, travel at the average speed of 55 miles per hour. This is incorrect. The engine and tender, taking the average weight of the latter with her complement of water and coke over the whole distance run, weigh 43, and not 56, tons; and the average speed to and from Swindon, deducting time lost in stoppages, was 50, and not 56, miles per hour. Our notice states that the engine, without her water, weighs 36 tous, whereas it is, with water, 28} tons only. Her maximum speed, with the 140 tons, on a falling gradlent of 4 ft. per mile, was 57 miles per hour. But the trip in question was an experimental one, for the purpose of ascertaining how the engine would work with a heavy passenger lode. It was found that the engine did not work at the required pressure; the blast pipe was therefore reduced, and she is now in very good working order. She has since carried the ordinary express trains to Exeter, 194 miles in 189 minutes, or at a rate of 63 miles per hour; but even this does not fairly show the vast capabilities of this extraordinary machine. Excluding the comparatively slow rate at which the train runs down the inclines, and the loss of time in arriving at and leaving stations, the average rate of travelling will be from 63 to 69 miles per hour. On Thursday the express train, weighing 90 tons, and worked by the same engine, travelled from Didcot to Paddington, 53 miles, in 51 minutes—that is, from station to station. The speed between the 47th and 2d mile-posts averaged 70 miles per hour; and yet a few years since the world was unwilling to believe that 20 or 30 tons could be taken at 13 miles per hour by a locomotive. Leaved men ridiculed the absurdity of 20 miles an hour with 20 or 30 t noticed, in last week's Journal, the performance of a powerful new locomotive engine, built by the Great Western Railway Company, which, we are informed,

TELEGRAPHIC COMMUNICATION BITWISH FRANCE AND ENGLASD.—It was stated some time ago, that a submarine telegraph was to be laid down across the English Channel, by which as instantaneous communication could be made from coast to coast. The Lords Commissioners of the Admiralty, with a view of testing the practicability of this undertaking, have been pleased to approve of the projectors laying down a sub-marine telegraph across the harbour of Portsmouth, from the house of the admiral in the dockyard to the railway terminus at Gosport. In a few days after the experiment has been successfully tested at Portsmouth, the sub-marine telegraph will be laid down across the Straits of Dever, under the sanction of both English and French Governments.

M. Hallett was at Pockham on Wednissian, and superintended the working

minus at Gosport. In a few days after the experiment has been successfully tested at Portsmonth, the sub-marine telegraph will be laid down across the Straits of Dever, under the sanction of both English and French Governments.

M. Hallette was at Peckham on Wednesday, and superintended the working of the model for two hours. Several ladies and gentlemen were present, who expressed to the inventor the great gratification they had derived from the expensed to the inventor the great gratification they had derived from the expensed to the inventor the great gratification they had derived from the expensed to the inventor the great gratification they had derived from the expensed to the motion of the piston carriage were highly commended. A gentleman attended on bohalf of the Minister of Public Works in Russia, to examine the apparatus. He expressed himself perfectly satisfied with all that he saw, and reported immediately to St. Petersburgh. The experiments at Peckham would be resumed this day (Saturday), at two o'clock, when M. Hallette will again be present; the members of the Institution of Civil Engineers have been invited. The experiments will be of assarching character, and an interesting discussion may be expected.

SOUTH DISCOM RAHLWAY.—A numerously attended special general meeting of the shareholders was held at Elliott's Royal Hotel, Plymouth, on the 6th inst.—The chair was taken by Thomas Gill, Esq., M.P., the chairman of the company. He stated that the meeting had been called in compliance with the sessional order of the Legislature, known, as Sir Robert Peel's Act, by which it was provided that all bills, to be carried forward in the present session of Parliament, should be brought before the proprietary for reconsideration. In respect to the meeting, the directors had received letters of proxy from persons holding shares to the amount of 400,000l, which alone was sufficient to give the required affirmation, to which affirmation he did not expect that a single shareholder would object, as all they wer at 635,000.—Mr. Thomas Were Fox and Mr. Davy Derry severally addressed the meeting at considerable length, contending that the wiser course would be to complete the trunk line, and have it working before any branch lines were attempted.—A resolution approving of the bill being persevered in submitted by the chairman, was eventually adopted without a division.—This concluded the business of the meeting, and the chairman having vacated the chair, pro forma, proceeded to say, that another general special meeting was called, in compliance with the requirements of the House of Lords, under what are known as the Wharnoliffe orders. The business of the second meeting was accordingly proceeded with. It consisted in the adoption of resolutions approving of the South Devon Extension Bill, referred to above, of the Ashburton and Newton Branch to the South Devon Railway, and of the Cornwall Railway Bills. The nature and objects of the several bills having been explained by Mr. Wertzebnix, the resolutions were unanimously adopted.—The receipts on the South Devon Railway, during the six days from its opening to Satarday last, amounts to 800t, that being quite doubt the sum anticipated by the directors. The portion opened, from Exter to Teignmouth, is 15 miles.

A BAD LEG, OF THINKY-FYEN YEARS STANDING, CORRED BY HOLLOWAY'S OKATEREY AND FILLS.—The particulars of this extraordinary case are as follows:—The James Macdonald, a native of ireland, now residing at No. 7. George-yard, Whitedappil, was discharged from the ray in 1612, in emecumence of his legt, each 39 years of sufficiency than his now soundly healed by the use of Holloway's common and pills, which are sold by all dealers in medicine, and at the properious establishment, 244, Strand, London.

Transactions of Scientific Bodies.

MEETINGS DURING THE ENSUING WEEK. Regent's-park
12, St. James's-square
Soho-square..... Linnean ... Civil Engineers Society of Arts.

GEOLOGICAL SOCIETY.

GEOLOGICAL SOCIETY.

May 20.—Sir Prillip Econtron, Bart, V.P., in the chair.

The Rev. J. G. Cumming, M.A. and C. H. L. Woodd, Esq., were elected Fellows of the society.—The following communications were read:—1. "On a New Species of Plesiosaurus (P. segacephalus) from the Bristol Lias," by S. Stutchbury, Esq. The specimen described by the author is in the Bristol Museum. It is in very beautiful preservation, and exhibits some peculiar characters both in its general structure and propertions. Its length is about 16 ft. 3 in., the neck being short in proportion, and only one and a half times the length of the head; while the whole animal appears to have been remarkably compact and massive, and the extremities unusually rigantic. The teeth are large, and as many as 60 can be counted. The number of vertebra is 94, comprising 29 cervical, 34 dorsal (and lumbar?), 31 searnal and caudal.—2. "On Footmarks in the Coal Measures of Pennsylvania," by C. Lyell, Esq. In the Pennsylvanian coal-field there have been described several footmarks referred to mammalia and birds as well as reptiles. Among these, the author expresses his conviction that the ornithoidichnites, and the supposed mammalian footprints, are not real impressions made by the animals, but artificial sculptures by the Indians. He believes, however, that in the distinctly carboniferous rocks of Pennsylvania, there do exist chirotheroid impressions, and also footprints of birds.—3. "Description of an Upper Molar Tooth of Dichobuse cervisus, from the Eccene Marl of Biustead, lise of Wight," by Prof. Owen. The upper molars of teeth of this Anoplothere have not before been described, and they present some points of interest in the possession of a basal ridge along the inner side of the crown.—4. "On the Fresh-water Beds of Brora, Sutherlandshire, with remarks on other Fresh-water Beds in the Oolitic Series," by A. Robertson, Esq. The author, after referring to his former paper on the subject of these beds, and to the observations on them by Sir R. I. Murchinson,

to attention; but where such applies more particularly to the delicacy, yet firmness, of the pencil, and the transparency or opaqueness of colours used in depicting machinery, such has a twofold claim on attention. It is well known that, in the manufacture of water colours, gum has formed a component part, not only attaching brilliancy to the tone of colour, but necessary firmness, or compactness, given to the cake. It, however, has been found, after much study and attention to the admixture of colours, and their manufacture, that gum might be superseded by the employment of wax—at the same time rendering the colours readily soluble with water, while the tone given nearly approaches the colours readily soluble with water, while the tone given nearly approaches an oil-painting. One of the main features in this improvement may be said to consist in the power acquired of washing over the celour once laid down without the danger to be apprehended from moving or destroying the transparency or brilliancy—a point which those acquainted with the machanical drawings can well estimate. The testimenials submitted to us, of the importance to be attached to the introduction of wax instead of gum, and now before us, embrace the principal historical and landscape painters of the duy, whether in oil or water colours. Mesers. Reeves and Sons have also lately introduced a superior black-lead pencil, manufactured from the dust of pure Cumberland lead—a step taken by them in consequence of the lead mine in Cumberland, from which the supply has heretofore been acquired, having failed to produce the quality, if not the quantity of lead, which has been extracted from it in past days. The importance to be attached to the freedom of handling by the pencil; which depends mainly on the purity of the lead, while they are free from grit, and possess the several varieties of hardness and tint that may be required, forms oue of the most prominent claims on attention. Having availed curselves of the use both of the pencils and colours, we have no hesitation in adding our humble testimony to that rendered by the principal artists of the day.

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Curris on Mansoon (Strange).—A perusal of this work will easily distinguish its belief of the control of the control of the sort of the control of the sort of the control of the sort of the control of the contro

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PROGRESS OF FRENCH MINING INDUSTRY.

Intelligence has been lately received from the mining corps in Algiers, but it does not present many points of novelty or interest. Taken altogether, however, it appears to be not of the most satisfactory character. The researches that have been made, show that the ground, generally speaking, is of a very unfavourable nature for mining operations—that it is very difficult of access, from there being few or no reads—and that the ores which are to be met with that have been made, show that the ground, generally speaking, is or a very unfavourable nature for mining operations—that it is very difficult of access, from there being few or no roads—and that the one which are to be met with in smary places, but in small quantities. In the groups near to Isly, it is said to be of particularly good quality, better even than that of Saxony or Hungary. Near Tenus copper and fron have been discovered, of the samo quality as those of Mouzals. On the territory, near the Beni-Hidga, copper has also been found. The mountains of Great Kalylis, but both are believed to be vory rich fine copper and the orest though, as long as Algiers ship control, reliable that the nontains of Great Kalylis, but both are believed to be vory rich fine copper and then orest though, as long as Algiers ship control, colony of Algiers, are those of Bone and Philippeville. Not only is iron ore abundant there, but the roads to them are good, and they are near the sea. By a lucky chance, the forests, known as Pidough and is Calle, are at no great distance from Bone and Philippeville. According to the calculation of a Government engineer, they are capable of yielding 9000 tons of wood per annum; and, if that supply were to fail or fall short, fuel could be obtained at no very enormous cost from Corsica or from Marseilles; at present, a furnace is in course of construction for working the ore, and it will probably be in operation in the course of the present year. Among the iron ores which Algiers possesses, are some which are said to be of the same quality as the finest sorts of Sweden, which are used in the steel manufactories; but, after all, there are immensed trafters to the chances of Algiers becoming a source of mineral wealth, as has been sanguinely expected. First of all, with the exception of the neighbourhood of Bone and Philippeville, there is no fuel. Then the price of labour is enormously high—a good miner getting 6 fr. a day, and an ordinary labourer 4 fr.; nor is there any probability, nor eve

Creat activity prevails in mining affairs throughout the country, and there is great trafficking on the Bourse, in shares of coal, iron, and mine companies.

FRENCH IRON AND COAL CONTRACTS.—The Minister of Marine and Colo nies has issued notice, that a contract will be entered into on the 1st of August next, for the delivery of 50,000 hectolitres of coal, for forges at Nivers-particulars of the contract to be had at the provisionary offices at Cherbourg, Rochfort, Toulon, and Guerigny, and at the Ministry of Marine. On the 25th instant, centracts will be entered into for 600,000 kilogrammes of rock coal (1,200,000 lbs.), at the port of St. Servan—the conditions to be obtained at Cherbourg, Brest, Lorient, Rochfort, St. Servan, and at the Admiralty. We stated, in a former Number, the difficulty the Minister of Public Works experiences in concluding his proposed contract for railway chairs (coussinets), the price offered being such that the competitors cannot accept. The first tenders were opened at the Department of the Public Works; none of which, however, were accepted. Another competition took place on the 2d inst.; and after the tenders had been opened in the presence of the different parties, or their agents, the price yet offered was such, that not one could accept it, although all were desirous, if they could at a trifling profit. The Minister appeared rather charging at these two refusals, and all further proposals have been adjourned sine die. The manufacturers of rails, chairs, and other materiel, for railways, have the greatest difficulty in obtaining a sufficient quantity of iron, so as to complete their contracts—as this metal, since the building of iron steamers, and the great progress making in railways, eausing so extensive a demand, has risen in the market, and the iron and forgenmasters have entered into a combination "to make hay while the sun shines." It is this high price of material which causes the delay in the completion of so many of the railways now in progress and projected throughout France. The Minister of Public Works, as a matter of course, wishes to conclude his contracts at as low a price as possible,—and, no doubt, will ultimately be obliged to import from this country or Belgium. ars of the contract to be had at the provisionary offices at Cherbe

PROGRESS OF IRON SHIPBUILDING .- On Wednesday last, two launches took place from Messrs. Ditchburn's yard, at Blackwall, which attracted numerous visitors. The first vessel liberated was the Erin-go-bragh, belonging to the Peninsular and Oriental Steam Navigation Company, and is every way creditable to that company's splendid fleet—she is built of iron, and is to have 290-horse power engines, by Maudslay; her dimensions are 201 ft. 6 in. between the perpendiculars; keel for tonnage, 184 ft.; breadth for do., 28 ft. 9 in.; depth in hold, 17 ft. 4 in.; and burthen, 810 tons.—The Recruit was then launched; a he is one of the experimental brigs which the Lords of the Admiralty have ordered to be built, by private firms, and is the first iron vessel of war ever built in this country, or probably in the world. The lady of Mr. Ditchburn named her—Theodories 12 guns; is 113 ft. between perpendiculars; keel for tonnage, 94 ft. 10 in.; breadth do., 30 ft. 3 in.; depth in hold, 14 ft. 2 in.; and burthen, 449 tons.—On Saturday last, an experimental trip was made with the new iron steam-ship Windsor; she started from St. George's Pier, Liverpool, and made the North light-ship (154 miles) in 54 minutes; and on her return, she left the Bell buoy, and arrived at the pier (18 miles) in 1 hour and 9 minutes, against the tide—she is intended to ply between Liverpool and Belfast; her length over all, is 224 ft.; keel, 190 ft.: breadth, 28 ft.; depth of hold, 16 ft.; tonnage, 764 tons; engines, 350-horse power. merous visitors. The first vessel liberated was the Erin-go-bragh, belonging

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OARDEN WALKS and TERRACES
CARRIAGE DRIVES

The work of the property o

CARLAGE DRIVES
COACH-HOUSES and STABLING
DOG KENNELS
BARN FLOORS
TUN ROOM FLOORS
Wote.—The Sersel Asphalte Comp

WIS—where it is essential to keep our rising walks and TERRACES EDRIVES OUSES and STABLING INELS OORS IN FLOORS ELINING OF RAILROAD and OTHER ARCHES The only effectual mode to prevent the percelation of water, which also renders it very appropriate for the LINING OF TANKS, FISH PONDS, DRAINS, &c. &c.

IN FLOORS DRAINS, &c. &c.

I. FARRELL, Secretary, Seyssel Asphalte Company, Stangate, London.

HALLETTE'S ATMOSPHERIC RAILWAY AND CANAL PROPULSION COMPANY.

The EXPERIMENTAL LINE OF RAILWAY, at the ROSEMARY BRANCH, PECKHAM, for EXHIBITING the APPLICATION of HALLETTE'S ATMOSPHERIC SYSTEM, 13 NOW OPEN.—Days of running, Wednesdays, Thursdays, and Fridays, Freenen the hours of Twelve and Four.

Tickets may be had at the offices, Wischester-house, 52, Old Broad-street; and Castle, to Pockham, every ten minutes.

EDWARD J. COLE, Socretary.

HALLETTE'S ATMOSPHERIC RAILWAY.—We have

The informed on good authority, that the directors of HALLETTE'S ATMOSPHERIO RAILWAY COMPANY, which has been duly registered, have this west
COMPLETED their AGREEMENT with Monaleur HALLETTE.

The deeds of assignment were executed at the company's offices on Wednesday
and the patents for Great Britain, Ireland, the Colomies, and Plantations, and for the sever of European countries of the continent, were handed over by Monsieur Hallette to the
directors. The invention is now the property of an English company. Many scientific
persons, who have visited the model at Peckham, are impressed with a very favourable
ophicin of the efficiency of the longitudinal valve, and of the simplicity of the system attogather. It is now fairly before the public, and must await the judgment of our eminent
eagingers.

CALEDONIAN RAILWAY.—FOURTH INSTALMENT —Notice is hereby given, that the directors of the Caledonian Raffway Compan have made a CALL FOR A FOURTH INSTALMENT, of FIVE POUNDS pers share PAYABLE on or before the 15th day of July next, at any of the under-mentioned banks.

EDINBURGH, LEITH, AND GRANTON RAILWAY. The directors of this company are ready to RECEIVE TENDERS for LOANS, on bebenture Bonds, for sums of not less than 4500, for a period of three years, at the rate of 44 per cents, payable at the terms of Martinmas and Whitsunday, by the undermented bankers:—London—Mesars. Williams, Deacon, and Co., Birchin-lane.

Liverpool—Mesars, Leyland and Bullius.

Edinburgh—City of Glasgow Bank.

By order of the board,

ALLEN GEO. FIELD, Secretar.

8, Abercromby-place, Edinburgh, June, 1846.

NORTH DEVON RAILWAY.—Notice is hereby given, that the Clarence Hotel. Excler on the scripholders in this conference of the scripholders in this conference will be scripholders. a GENERAL MEETING of the scripholders in this company-will be HELD at e Clarence Hotel, Exeter, on Saturday, the 20th day of June inst., at One o'clock p.m. receive a report from the committee of management of their proceedings, and of the sets and liabilities of the company, and to determine whether this undertaking shall be sects and liabilities of the company, and to determine whether this undertaking a outlined or abandoned.

The chair will be taken at One o'clock precisely.—Exeter, June 3, 1846.

N.B.—All persons attending the meeting will be required to produce their scrip.

WEST FLANDERS RAILWAYS.—NOTICE OF CALL LEST FLANDERS RAILWAYS.—NOTICE OF CALL.

—Notice is hereby given, that the directors have made a further OALL of TWO POUNDS per share on each and every share in this undertaking, and that the same is made PAYABLE on the 12th day of June next. The proprietors are required to pay the same, on or before the 12th day of June next, to Messrs. Glyn, Halifax, Mills, and Co., bankers, Lombard-sfreet, London. Interest, at the rate of 5 per cent, per annum, will be charged on all sums remaining unpaid after the said 12th day of June; and if any call shall remain unpaid within one month from that date, the shares will become absolutely forfeited, according to the statutes of the company.

The proprietors are further informed, that, after the payment of this, the third instalment, is effected, they will be entitled to receive certificates, which may, at their option, be registered in their own names, or payable to bearer.

(Signed) W. P. RICHARDS, President WILLIAM JESSE, Secretary 11, King William-street, Mansion-house, London.

11, King William-street, Mansion-house, London.

ON SALE.—No. 1. A SECOND-HAND double power con-densing MARINE ENGINE, with east-iron framing and side beams; cylinder diameter, 3-feet stroke; afr-pump lined with brass—no boller; 52-horse power, with 7 lbs. pressure on the square inch.

No. 2. A SECOND-HAND double power condensing MARINE ENGINE, with cast iron framing and side beams; cylinder 31-in. diameter, 3-feet streke; air-pump lined with brass—no boiler; 47-horse power, with 7 lbs. pressure on the square inch.

No. 3. A double power condensing MARINE ENGINE, quite NEW, but unfinished vith cast-iron framing and side beams; cylinder 43-in. diameter, 31-feet stroke; 91-hour ower, with 71bs. pressure on the square inch—ne boiler.

with cast-iron framing and side beams; cylinder 43-in. diameter, 3f-feet stroke; 91-horpower, with 7 lbs. pressure on the square inch—no boiler.

No. 4. A double power condensing LAND, BEAM, WINDING ENGINE; cylinder 22-in. diameter, 4f-feet stroke; hand-goer, with button valves, parallel motion, fly-wheel, waggon boiler, with all its fittings; door, grate, dead plate, &c.; two large cast-iron bell cranks and pedestals, with strong wrought-iron conjucting rods, for pumping water from two lifts of pumps, 100 vards deep; two rope wheels, suited for flat chains; apparatus to throw in and out of gear; pit-head pullies, &c.; 23-horse power, with 7 lbs. pressure on the square inch.

one square men.

No. 5. A NEW direct action ENGINE, double power, sultable for a corn mill, or winding in a coal or lead mine, with improved spring packing for piston; ditto ditto for nozzle valves; cylinder 16-in. diameter, 3\(\frac{1}{2}\)-feet stroke; 28-horse power, with 30 lbs. pressure on the square inch—no boiler.

No. 6. A double power LAND BEAM ENGINE; cylinder 20½-in. diameter, 4-ft. stroke. slide valve, parallel motion—no boiler, and quite NEW; 52-horse power, with 30 lbs, pressure on the square inch—no boiler.

No. 7. A double power BEAM WINDING ENGINE; cylinder 154-in. diameter, 34-ft. stroke, with a cast-from portable frame; slide valve, hand-gear, parallel motion, flat-rope wheel, spur and pinion wheels for the same; 29-horse power, with 30 lbs. pressure on the quare inch—no boiler.

square inch—no boiler.

No. 8. A NEW double power direct action ENGINE, made to drive a paper machine; cylinder 7½ in. dismeter, 18-in. stroke, new boiler, with fittings on ditto; grate, door, dead plate, &c.; fly-wheel, &c.; 6½-horse power; with 30 lbs. pressure on the square inch. No. 9. A SECOND-HAND PUMPING ENGINE, with a cylinder 48-in. diameter, 7-ft. stroke in the house, and the same in the pit, with air-pump condensor; hand-gear, cistern, &c.; pumping three lifts of pumps 100 yards; working barrels, 14 in. diameter—no boiler; 113-horse power, with 7 lbs. pressure on the square inch.

No. 10. A WINDING ENGINE, on a cast-iron portable frame, double power; cylinder 14½-in. diameter, 3½-ft. stroke; spur and pinion wheels, rope wheels, fly-wheel, with friction band on ditto; grate door, dead plate, &c., complete, and no worse than new; 26 horse power, with 30 lbs. pressure on the square inch—boiler and fittings for the same NEW BOILERS, of any shape, can BE MADE, at a SHORT NOTICE, to SUIT any

NEW BOILERS, of any shape, can BE MADE, at a SHORT NOTICE, to SUIT any of the ABOVE ENGINES.—For further information, apply to

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MOSTYN FOUNDRY, NEAR HOLYWELL, FLINTSHIRE.

MOSTYN FOUNDRY, NEAR HOLVWELL, FLINTSHIRE.

CRADDOCK'S UNIVERSAL CONDENSING ENGINE.

—The GREAT ADVANTAGES of WORKING HIGH-PRESSURE STEAM
EXPANSIVELY, with a VAOUM, being now universally allowed, the MEANS of
OBTAINING such ADVANTAGES, by the USE of the ABOVE INVENTION, cannot
fall to interest all connected in any way with the profitable use of the atcame-agine
whether for steam-vessels, locomotives, or stationary engines. By the extended use of
the expansion principle, the above invention is capable of realising, under all circumstances, the economy litherto confined to the Cornish engine, and even increasing the economy of it also—thus enabling steam-vessels to go twice the distance with the usual quantity of fuel, or the same distance with half the usual quantity; at the same time, owing
to the greatly reduced weight and bulk of machinery, enabling vessels to carry a mucgreater amount of profitable freight.

As applied to the locomotive, it will produce 75 per cent. saving in coke, and disperse
with the funder, and the present expensive means of obtaining a good supply of water for
the use of the engine, as well as preventing all nuisance and loss from escape of steam.

By its application to the stationary engine, it effects a great economy of fuel, thereby
rendering it profitably applicable to any locality for which engines are at present unsuited,
owing to their great consumption of coal and water.

The above invention secures all the advantages obtainable by the use of a vacuum in condusing the steam by means of the atmosphere, when water for the purpose is not obtainable—thus realising all the advantages of the high-pressure expansive and condensing
engine, at the same time only requiring a few gallons of water per day to supply waste
and leakage from the boller—(this has been practically proved to be less than one gallon
per horse-power per day).

The above-mentioned great advantages are capable of such extensive application, and
are based on such thoroughly established principles, as to claim t

WORKS, No. 36, BROAD-STREET, BIRMINGHAM. srs. Craddock and Co. will have the above engines at WORK, and OPEN for IN-TION, from the 20th of May to the 20th of June, previous to their making more led arrangements.—36, Broad-street, Birningham.

Just published, in 8vo., price THE CHEMISTRY OF THE STEAM-ENGINE PRAC-

TICALLY CONSIDERED: being the substance of a COURSE of LECTURES, d in the Theorre of the Philosophical Institution, Birmingham.

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NOTICE TO INVENTORS.—OFFICE FOR PATENTS OF INVENTIONS AND REGISTRATIONS OF DESIGNS,

14. LINCOLN'S INN-FIELDS, LONDON.

The printed INSTRUCTION'S (gratis), and every information upon the PROTECTION FOR INVENTIONS, either by Letters Patent or the Designs be lead by applying personally, or by lefter (pre-paid), to Mr. Alexander Printers and Control of the Contr

DATENT VULCANISED INDIA RUBBER

Beg to inform the Public that they are the Pricentees and sole Manufacturers of the above Substance. The distinguishing properties of the Putent Vulcanised India Rubber are, its uniform cisaticity in various temperatures, its not becoming land on exposure to extreme cold, nor liable to injury by contact with heat. Its strength is greater than that of native countenance; it is indissoluble in easontial oils; it resists the effects of oil and greate in inferent degrees, according to the purposes for which it is manufactured.

Among the various useful applications of the Patent Vulcanised India Rubber, may be mumerated.

umerated— WASHERS or RINGS for joints in steam, and water-pipes, and for valves for ste agines; by which labour is economised, and the joints more effectually made, that

ny other mode. ELASTIC BANDS, for holding together bundles of letters, papers, In ARTICLES of DRESS—Springs for waistcoat-backs and trowsers

brace-ends, garters, &c.

In CALICO-PRINTING, the substitute for blanket has been found to product finer impression than the woollen hitherto used, and with considerably less presses anying in power, and wear of lapping.

COVERS for furnishing rollers (in lies of fiannel), are perfect for their purps the India Rabber does not absorb moisture, they can be easily cleansed, and need by wasterness.

over the for furnishing coines (in new states, they can be easily cleansed, and no need be wasted.

FLEXIBLE HOSE for fire-engines, brewers' purposes, gas, &c.

SPRINGS for railway and other vans and earriages, and for buffers and drags CORRUGATED FELT, for placing between the rails and the chairs of railways, sleepers, to take off the ultimate concussion, and to prevent in wooden continuous a the embedding of the rails &c.

Cambridge-street, Chorlton-upon-Medlock, Manchester, April, 1846.

SAMPLES of the above may be seen at 46, CHEAPSIDE, and 58, CHANCERT-LINE.

PATENT IMPROVEMENTS IN CHRONOMETERS WATCHES, AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Cockspur-street, watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquaint the public, that the manufacture of his chromometers, watches, and clocks, is secured by three separate patents, respectively granted in 1886, 1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. each; in gold cases, from 25 to £10 extras. Gold horizontal watches, with gold disls, from 8 gs. to 12 gs. each. J. DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now ready for deliver. Pamphletscontaining a description and directions for its use 1s. each, but to customers gratis

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THE CHISHOLM, Chairman | WM. MORLEY, Esq., Deputy-Ch

WM. MORLEY, Esq., Deputy-Chairman

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The whole of the promis divince Arravata minois the most promise promises. An ample guaranteed capital, in addition to the fund continually accumulating from remaines, fully sufficient to afford complete security to the policy-holders.

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Full particulars are detailed in the prospectus, which, with every requisite information, may be obtained by application to

LIST OF PRIZES FOR SESSION 1846-47. SCOTTISH SOCIETY OF ARTS proposes

to Ave. RIZES, of different values (none to exceed Thirty Sovereigns), either in Gold or Silver-Siedals, Silver Plate, or Money, for APPROVED COMMUNICATIONS, relativa to INVENTIONS, DISCOVERIES, and MIPROVED COMMUNICATIONS, relativa to INVENTIONS, DISCOVERIES, and MIPROVEMENTS in the MECHANHAL and CHEMICAL ARTS in general, and also to means by which the NATURAL PRODUCTIONS of the country may be made meets available; and in particular to—
I.—Inventions, processes, or practices from foreign countries, not generally known or adopted in Great Britain—such as the manufacture of glass pipes, for conveying water, gas, &c.

II.—Notices of processes in the useful arts practised in this country, but not generally known.

II.—Experiments applicable to the useful arts.

IV.—Practical details of public or other undertakings of national importance, not previously published.

V.—Discovery of substitutes for hemp and flax, &c.

VI.—inventions, discoveries, or improvements in the useful arts, including the mechanical and chemical; and in the mechanical branch of the fine arts—such as the following—viz.:

following—viz.:

1. MECHANICAL ARTS.

1. Methods of rendering large supplies of water available, for the purpose of extinguishing fires, and the best application of manual, or other power, to the working of fire-engines—of filtering water in large quantities—of economising fuel, gas, &c.—of preparing superior fuel from peat—of preventing smoke and noxious vapours from manufactories—of warming and ventilating public edifices, private dwellings, &c.—of constructing economical and salubrious dwellings for the working classes, especially in towns—of making cheap and wholesome broad from maize, or buck-wheat, or from mixtures of these with other substances.

cheap and wholesome broad from maize, or buck-wheat, or from mixtures of those with other substances.

2. Inventions or improvements in the manufacture of iron and other metals, simple or alloyed—in the manufacture of writing and printing paper—in tuyeres for blast-furnaces—in the making and tempering of steel—in gliding brass equal in colour to the French—in artificial pavement—in balance, pendulum, or electro-magnetic fline-keepers—in screw-cutting—in printing presses—in stersotyping, and in cleasing the plaster from the types—in furnaces and other apparatus used in stereotyping—in type-founding—in the composition of printers rollers—in shipbuilding, with regard to ventilation, both for the crew and the timbers—in currying and tawing of leather—in preparing black poisshed leather equal to the French—in stationary and locomotive engines—in railway wheels and axiss—in railway telegraphs and signals—in smith-work and carpentry—in tools, implements, and apparatus for the various trades—in electric, voltaic, and magnetic apparatus.

2. CHEMICAL AFTS.

ments, and apparatus for the various trades—in electric, voltaic, and magnetic apparatus.

2. CHEMICAL ARTS.

Improvements in fine glass for optical purposes, free from velps, and of a deuss and transparent quality, equal, or superior, to the best continental glass—also in hard infusible glass for chemical purposes—in the annealing of glass—in the manufacture of writing inks, both common and copying, so as to flow freely from metallic pens—in the dissolving of caoutchouc, and applying it to neeful purposes.

solving of caoutchouc, and applying it to useful purposes.

3. RELATIVE TO THE FINE ARTS.

Improvements in patterns of porcelain, common clay, or m-tal, of domestic articles of simple and beautiful forms, without much ornament, and of one colour—in the preparation of lime and plaster for fresco-painting, and in appropriate tools for laying the plaster with precision—in Calcitype, Daguerrootype, and Electrotype—in the production of artificial light, as nearly of the quality of day-light as possible—in engraving on stone—in the application of Daguerrootype and Calcitype to the stone for lithographic printing—in die-sinking—in wood-cutting, and other methods of linestrating books to be printed with the letter-press—in printing from woodcust, &c.—in ornamental metallic casting—in constructing buildings on the most correct acoustic principles.

The society also propose to AWARD the KEITH PRIZE, value THERT SOURRIGHS, for some important "invention, improvement, or discovery, in the useful arts, which shall be prinarily submitted to the society," betwixt and 1st April, 1847.

The descriptions of the various inventions, &c., to be full and distinct, and to be written on foolscap paper, leaving margins at least one inch broad, on both the outer and timer sides of the criting, so as to allow of their baing bound up in volumes; and, when necessary, necompanied by specimens, drawings, or models. All drawings to be on imperial drawing paper, unless a targer sheet be requisite. The drawings, letters or figures of reference, to be in bold lines, or strongly coloured, so as to be easily seen from some distance, when hung up in the hall of meeting.

The society to be at liberty to publish in their Tronsactions copies, or abstracts, of all papers submitted to them. All models, drawings, &c., for which prizes shall be given, to be held to be the property of the society—the value of the model being taken into account in fixing the amount of the prize.

Communications, models, &c., to be addressed to James Tod, Esg., the secretary, 21.

to be held to be the property or me second count in fixing the amount of the prise.

Communications, models, &c., to be addressed to James Tod, Esq., the secretary, 21, Dublin-street, Edinburgh, postage or carriage paid; and they are expected to be lodged on or before 1s October, 1846, in order to ensure their being read and reported on during the session—the ordinary meetings of which end in April, 1847; but those which cannot be lodged enrier, will be received up to 1st March, 1847.

Copies of this list of prizes may be had from the secretary.

By order of the society,

Edinburgh, April 13, 1846.

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Mr. May, printer and publisher, Redruth."

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[June 13, 1846.